

Manufacturers Record

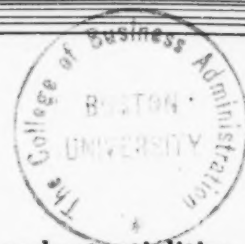
Exponent 01 America



\$6.50 per Year.
Single Copy, 20 Cents.

Baltimore, Md.
MAY 3, 1928

To Know the South.



Never before has there been such nation-wide interest in the progress and potentialities of the South. The foremost bankers and general business men, manufacturers, investors and others in the North and West, are all showing increased interest in the progress of this section.

The recent resignation of the United States Treasurer, a former governor of North Dakota, in order to become president of a finance company organized in Chattanooga to lend money on Southern investments, is suggestive of how far-seeing men are looking to the South as the coming centre of financial, industrial and agricultural development.

In this situation is to be found one of the most interesting phases of the business life of America—a situation which appeals tremendously to the people of the whole country who at last are beginning to comprehend that the star of empire, financial, industrial and agricultural, is moving Southward. At the same time there is an awakened regnant spirit on the part of Southern business people which is attracting unusual attention among business men elsewhere. It thus becomes supremely important that the South should understand itself, its past, present and future, to a greater extent than ever before, and that people of the North and West should have the opportunity of knowing more than they have yet learned about Southern resources in men and materials. The rising generation in the South needs to catch the inspiration of what this section has done and what is now being done, with a vision of what the future will show, and thus stimulate their energies and activities to make the most of their superb opportunities.

The BLUE BOOK OF SOUTHERN PROGRESS, 1928 edition, which will be ready for distribution in the next few days, is a comprehensive survey of this whole situation. Reviewing the progress of the South through the past and up to the present time, it presents the actual facts in regard to the South's resources and the South's progress in such a way as to make it an invaluable publication in every Southern office and Southern home, in every Southern school and library, for the people of the South should know their own country to a greater extent than they know it now.

To the people of other sections the BLUE BOOK OF SOUTHERN PROGRESS will prove a revelation, because it will show them in a way which they have never before fully realized the tremendous resources and natural advantages upon which the South is building and the opportunity the South offers for an ever enlarging market for the brains and the brawn, the finance and the manufactured products of other sections.

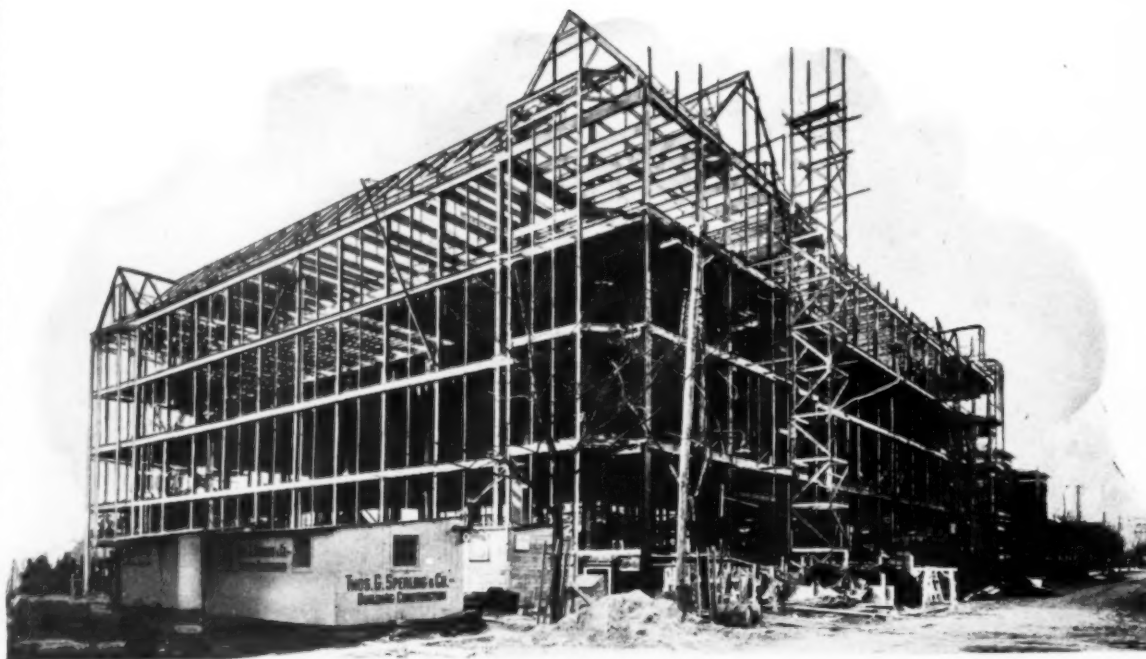
The subscription price for single copies of the BLUE BOOK OF SOUTHERN PROGRESS is 50 cents, with lower rates for bulk orders. Subscriptions for less than ten copies must be accompanied by cash or check. Banks and railroads and other interests have sent in many subscriptions, all the way from 100 to 1100 copies, and others will be rendering themselves and the country a distinct service by following their example.



The A. B. C. of Steel

YOU can't teach a class with steel, but you can insure strong, lasting school buildings. Steel is the first A. B. C. of good construction—that's why the Richmond Hill High School was built of Lehigh Steel—1600 tons of it. William H. Gompert was the architect; Thos. G. Sperling & Co., builders.

Insist on steel for your construction needs and then consult a Lehigh Engineer.



LEHIGH STRUCTURAL STEEL COMPANY

2525 Pennsylvania Ave. N. W.,
Washington, D. C.

Works: Allentown, Pa.

Realty Board Building
Miami, Fla.

NEW YORK

BOSTON

Steel Insures



PHILADELPHIA

Strength and Security

Ⓔ2576

Table of Contents

Baltimore, Md., May 3, 1928

To Know the South.....Cover Page

EDITORIALS

The Plight of American Farmers in 1822 and at Other Periods.....	75
President Coolidge and the Mississippi River Situation.....	76
A Challenge to Advocates of Prohibition.....	76
A Bill That Should Be Scotched.....	76
The Standard Oil Seeking to Enlarge New England's Development: Why Not the South Also?.....	77
Unemployment Demands the Best Possible Statesmanship on the Part of Public Men and Business Leaders.....	78
How to Get Business.....	78
"Onward Christian Soldiers".....	79
Baltimore Gas and Electric Company Buying French Gas Pipe.....	79
The Tide Has Turned.....	80
A Statistical Analysis of Our Educational Progress.....	80

NEWS ARTICLES

What the Farmer Forgets About the Tariff.....By Arthur P. Chew	81
\$6,000,000 Gas Project in the Carolinas.....	82
The Arlington Memorial Bridge.....	83
Cotton Manufacturers to Meet at Richmond.....	84
\$10,000,000 Industrial Development and Railroad Projected Near Beaumont, Tex....	84
National Foreign Trade Council Stresses Importance of South.....	85
A Great Hydro-Electric Plant Near Louisville.....	87
Platform for American Industry and Agriculture.....	88
Big Paper and Bag Mill Under Way Soon in Alabama.....	89
John W. Carpenter—Builder.....By Miles C. Shorey	96
Automobile Tourists May Spend \$3,500,000,000 This Year.....By E. E. Duffy	92
History Making in Cotton Manufacturing Industry.....	93
Business Men to Discuss Important Business Topics.....	94
\$9,000,000 Highway Through the Everglades.....	95
Southern Interest in Uniform Aeronautic Law.....	96
Super-Power Plant for Panhandle-Plains Section of Texas.....	96
\$55,886,310 for Rivers and Harbors.....	97
Piedmont & Northern to Question Jurisdiction of Interstate Commerce Commission..	98
Newspapers Plan a Demonstration Farm.....	98
\$2,500,000 Office Building Planned for Memphis.....	98

DEPARTMENTS

Iron, Steel and Metal Market.....	99	Construction.....	104
Good Roads and Streets.....	101	Trade Literature.....	120
Textile.....	102	Industrial News of Interest.....	123
New and Improved Equipment.....	103	Financial News.....	126

Manufacturers Record

RICHARD H. EDMONDS, Editor

PUBLISHED EVERY THURSDAY BY THE

MANUFACTURERS RECORD PUBLISHING CO.

Office: Manufacturers Record Building, corner Commerce and Water Streets, Baltimore, Maryland
Printing Plant, 8th Floor, Candler Building, Market Place and Lombard Street, Baltimore, Maryland

RICHARD H. EDMONDS, President; FRANK GOULD, First Vice-President; VICTOR H. POWER, Second Vice-President;
I. B. FIELD, Secretary; J. ROBERT GOULD, Treasurer

BRANCH OFFICES:

CHICAGO, 11 South La Salle Street

NEW YORK, 991 Singer Building

CINCINNATI, 333 Dixie Terminal Building

SUBSCRIPTION RATES:

\$6.50 a year (in advance); six months, \$3.50; three months, \$2 to United States, Mexico, Cuba, Porto Rico, Hawaii and the Philippines. For Canada add postage \$2 a year. For other foreign countries add postage \$5.50 a year. Back numbers, if available and not over one month old, 20 cents each. From one month to six months old, 50 cents each; over six months old, \$1 each. In ordering change of address, give old as well as new address.

MEMBER ASSOCIATED BUSINESS PAPERS, INC., AND AUDIT BUREAU OF CIRCULATIONS

The Veeder Manufacturing Co.
MANUFACTURERS OF



**No. 21
Clutch
Speed
Counter**

COUNTERS, ODOMETERS, CYCLOMETERS
TACHOMETERS, FINE DIE CASTINGS
Hartford, Connecticut

**For Over
Fifty Years**

We have searched the country over for wire having stamina equal to that of the imported steel wire we use for Yellow Strand. We haven't found it yet. Send for Catalog 85.

BRODERICK & BASCOM ROPE CO.
New York ST. LOUIS Seattle

**YELLOW STRAND
WIRE ROPE**
L831

TRADE **"LEADITE"** MARK
Registered U. S. Patent Office

For Jointing Cast-Iron Water Mains
Saves at Least 75%

Leadite Tested and Used for Over 30 Years
Leadite Joints Improve with Age

The Leadite Co., Land Title Building, Philadelphia, Pa.
See our full page ad second issue each month

NO CAULKING



O-S
Locomotive Cranes
Flexible Tread Cranes
Truck Cranes
Gantry Cranes
Power Shovels
Clam Shell Buckets
Orange Peel Buckets
Coal Crushers

ORTON 608 S. Dearborn St.
CRANE & SHOVEL CO. Chicago - Illinois

ASHLAND
FIRE BRICK

"How long will it last?" is more important to fire brick users than "How much does it cost?" What you save in buying price may mean a needless extravagance in the using price.

ASHLAND FIRE BRICK CO.
Inc. ASHLAND, KENTUCKY 1886

You Can Depend On
"HERCULES"
WIRE ROPE

because every wire that goes into it is first rigidly tested by us to make sure that it has every quality that hard work requires.

Made Only By
A. Leschen & Sons Rope Co.
5909 Kennerly Ave.
ST. LOUIS

New York Denver Chicago San Francisco

Established 1857

Made Of Acid-Steel Wire



EXPANSION JOINTS



TYPE B
Asphalt—
Reinforced with fibre.

WEBBED
Asphalt, fibre mixture.
Reinforced with felt
sides.

RAIL FILLER
Premoulded Bituminous
Track Insulation

SEWER PIPE BELTS
Premoulded Bituminous
Caulking Material

SERVICISED PRODUCTS CORPORATION
6051 W. 65th Street
CHICAGO

The Robinson Oils

"they lubricate more and outlast other oils"

WM. C. ROBINSON & SON CO.
ESTABLISHED 1832

Main Office: Dock and Caroline Sts., BALTIMORE, MD.
Refinery: CORAOPOLIS, PA.

BRANCHES IN 20 CITIES

Manufacturers Record

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development
of the South and Southwest as the Nation's Greatest Material Asset

Trade-Name Registered in the U. S. Patent Office

Vol. XCIII No. 18
Weekly.

BALTIMORE, MAY 3, 1928.

{ Single Copies, 20 Cents.
\$6.50 a Year.

The Plight of American Farmers in 1822 and at Other Periods.

GUY M. WALKER of New York, largely interested in farming in Mississippi, in a letter to the MANUFACTURERS RECORD gives some interesting extracts from a book published more than 100 years ago, giving some details regarding the plight of American farmers at that time. In his letter Mr. Walker writes:

"We hear much of the distress of farmers, and our people seem to think that the farm problem is something new. Last night I picked up a book in my library and read:

"Agriculture languishes. Farmers cannot find profit. The increase of produce in the United States is greater than any increase of consumption that may be pointed out elsewhere. To increase the quantity of provisions, then, without enlarging the numbers of those to eat them, will be only diminishing the price farther. The land in these circumstances can be of no value to the capitalists, yet the spare capital of farmers is here generally laid out in the purchase of land.

"Laborers and mechanics are in want of employment. I think that I have seen upwards of 1500 men in quest of work within the past 11 months and many of these declared that they had no money.

"Newspapers and private letters agree in stating that wages are low.

"It seems probable that the introduction of manufacturing industry and a reduction of base paper, by which the poor laborer is almost certain of being paid, would soon offer effectual relief."

"The above is copied from Letters from America of James Flint, published in Edinburgh, 1822. The particular letter quoted being written from Jeffersonville, Ind., May 4, 1820.

"For over 100 years, overproduction has been the farmer's problem and, as this canny Scotchman suggests, the development of a home market is the remedy."

The desperate condition of farmers in 1822, as shown by these extracts, only serves to illustrate what all intelligent students of agricultural affairs well know, and that is that there have been recurring periods, throughout the entire history of this country, of extreme depression in agriculture. It is a well known fact that during the decade 1840 to 1850, the price of cotton dropped to such an unprofitable figure that there was stagnation in the agricultural interests of the South, forcing the business people of that section to turn their attention to railroad and industrial interests, and bringing about in that period a rapid revival of the industrial spirit which dominated much of the South prior to the invention of the cotton gin, which fastened slavery and cotton growing around the neck of the South, to its great disadvantage.

In 1844, Middling Upland cotton averaged in New York 5.6

cents per pound for 12 months, and at that time there was practically no value to the cotton seed.

From 1829 to 1838, prices in New York for Middling Upland ranged from 9.4 cents, as the lowest average for the year, up to 17.4 cents, as the average for 1834. During the greater part of that time, the prices ran from about 12.3 cents up to the high figure of 17.4 cents. But in 1839 there came a sudden drop to an average of 8.9 cents per pound, steadily declining to an average of 5.6 cents per pound in 1844, as stated, continuing, with the exception of only one year, at extremely low figures until 1849, when prices again advanced.

From an average of about 10½ cents to 12 cents a pound for a good many years after the close of the Civil War, cotton in 1890 dropped to an average of 8.6 cents per pound, continuing a steady decline from year to year to 5.9 cents; then, to an average in 1897 of 5.6 cents, and in 1898 to 4.9 cents. For the next four years, the highest average was 9.64 cents, but, beginning with 1903 and up to 1913, prices ran from about 11.41 cents to 13.12 cents, dropping in 1914, due to the war, to 8.78 cents, and rising then steadily to an average for 1919 of 38.21 cents; in 1922, to 25.94 cents, and in 1923 to 30.46 cents.

These figures are quoted merely to show that there have been through many periods of our history extreme agricultural depression and pre-eminently so in cotton; but, through it all the farmers of the South struggled on, though passing through greater hardships than they now are having to endure. Moreover, in those days, there was no such diversification of farm products and no such demand from the North and West for the foodstuffs which the South is now producing.

Between 1892 and 1896, there was a period of depression in agriculture throughout the country so severe that it resulted in the Free Silver craze of the Bryan campaign of 1896. Gradually, year after year, for some years prior to 1892, the production of agriculture steadily increased in proportion to the population of the country, reaching a point where the surplus could not be marketed profitably. The inevitable result of this overproduction was a decrease in prices, which caused cotton to sell throughout the South in many places at from 4 cents to 5 cents a pound, wheat to sell for an entire year at an average for the United States of 49 cents a bushel, while corn sold in much of the West at 15 cents a bushel and was largely used for fuel, since it was cheaper to burn it than to buy coal or wood.

This extreme depression in agriculture continued until well after 1896, though between 1892 and 1896 there was a gradual decrease in farm products in proportion to population year by year, as there had been an increase up to 1892. This

decrease in agricultural output, coming at the time when McKinley's election helped to bring about widespread business prosperity, resulted within a few years in a general advance in farm prices and renewed prosperity for the farmers.

We have, since the deflation campaign of 1920, been undergoing a similar experience in agriculture; but, so far as the South is concerned—and this is probably true also of much of the West—a decided improvement is taking place wherever better farming methods are adopted and diversified agriculture is undertaken.

PRESIDENT COOLIDGE AND THE MISSISSIPPI RIVER SITUATION.

THE embarrassment which President Coolidge meets at the present time in considering the bill for work on the Mississippi River must, we think, compel him to realize the very great mistake which he made last spring when he was urged over and over again to visit the flooded district and see the situation for himself, which he refused to do, and when despite the pressure that was brought to bear upon him by many members of Congress and others he refused to call a special session of Congress to consider the Mississippi River situation.

If President Coolidge had gone to the flooded district he would have visualized the conditions better than he could possibly do even through the eyes of Mr. Hoover. Had he called a special session of Congress, as he was so urgently pressed to do, it would have been possible to have organized a commission of eminent Army and civilian engineers to study the whole problem and make a report to the present session of Congress. Every question concerning the river and its tributaries could have been threshed out instead of being thrown into Congress as at present.

We fear that Mr. Coolidge missed, for purely political reasons, one of the greatest opportunities which any President of the United States has ever had to render an invaluable service for the good of the country. To those who were studying this problem it seemed so clear last summer that a special session of Congress was supremely important, regardless of any fear that the President might have that politics would be injected into Congress, that no one who looked seriously into the situation could possibly, we think, have failed to recognize the importance of a special session devoted entirely to the consideration of this problem.

Mr. Coolidge now takes the ground that owners of large tracts of land in the flooded region would attempt under the present bill to charge the Government exorbitant figures for their property. He is fair enough to say that this would not be done by Southern people themselves, but by outside owners of Southern lands. This is a rather serious charge which, it seems to us, ought not to have been made unless the President is ready to give specific facts and the names of people who would thus try to rob the Government.

ITS EDUCATIONAL VALUE.

"PERSONALLY I believe all educational institutions in the South should be on your subscription list, and it is a pleasure to subscribe on behalf of this institution in which I am interested." This is the closing statement by Herbert S. Thatcher, treasurer of the Standard-Coosa-Thatcher Company of Chattanooga, in sending in a subscription for the Friendsville Academy of Friendsville, Tenn. We believe that, the South would be greatly benefited if every educational institution in this section were on the subscription list of the MANUFACTURERS RECORD. How many other business men will follow the example of Mr. Thatcher?

A CHALLENGE TO ADVOCATES OF PROHIBITION.

A PRACTICAL challenge to the business men of the country who believe in Prohibition has been issued by the Association Against the Prohibition Amendment, which has sent out a statement giving a list of about 100 men of affairs, some of them men of high standing, who are opposed to the Volstead Act and to the Prohibition Amendment itself. In their announcement it is claimed there will also be organized a Women's Department composed of women who want to see the liquor interests revived.

Under the circumstances it becomes important for the business men and the women of the country who believe in Prohibition to organize in every community and in every State associations for the express purpose of voicing their belief in Prohibition and in the rigid enforcement of all Prohibition laws.

There are thousands of manufacturers throughout the country, who have seen the good effect of Prohibition in connection with their own labor. There are millions of people of all classes of society who believe heartily in Prohibition, not only from the moral standpoint, but also as an economic measure for the welfare of the country. They must now meet the challenge of those who are working for the restoration of the liquor interests. They cannot afford to sit down and wait as they have been doing since the Prohibition law was adopted in the belief that, the Amendment having been adopted, the fight is over.

Entirely separate from the work of the Anti-Saloon League, and in no way whatever connected with its activities, there should be organizations formed in every part of the country of those who favor Prohibition to make an active and aggressive campaign to offset the attack of those who are fighting Prohibition. There is a great field for work of this kind in the South, as well as in the rest of the country.

A BILL THAT SHOULD BE SCOTCHED.

THROUGH a bill of less than 100 words, Senator Norris of Nebraska proposes to curtail the jurisdiction of the District Courts of the United States by eliminating their present authority to try actions "between citizens of the same State claiming lands under grants from different States; or, where the matter in controversy exceeds, exclusive of interests and costs, the sum or value of \$3000, and (a) arises under the Constitution or laws of the United States, or treaties made, or which shall be made, under their authority, or (b) is between citizens of different States, or (c) is between citizens of a State and foreign States, citizens or subjects," as section 41, United States Code now reads. According to Senator Norris, "the principal thing to be accomplished by the bill will be to take away the jurisdiction of District Courts in cases where their jurisdiction rests upon diversity of citizenship"; but the bill goes very much further.

As viewed by objectors to the measure, the amendment would mean the withdrawal of a recognized and valuable right on which investors have relied for safety and protection in making their investments, and also may deter investors from placing their money in properties located in States other than where they reside. For instance, the value of bonds might be lessened if the holders could not go into Federal courts for protection, in case of default.

In a note to the Senators and Representatives from Ohio, Charles Bertram, president of the Davies-Bertram Company, specialists in municipal bonds, Cincinnati, asks those statesmen actively to oppose the measure. We join in Mr. Bertram's hope that this bill will be defeated.

The Standard Oil Seeking to Enlarge New England's Development: Why Not the South Also?

IN the interest of New England, and doubtless brought about by the activity of the New England Council which has been stimulating the development of that section, the Standard Oil Company has begun an active publicity campaign in behalf of New England. This is a novel and remarkable piece of work for one of the great organizations of the country to take up, but if the Standard Oil Company can find it profitable—and we doubt not it will do so—to advertise New England in the way that it purposes to do, we trust that it and other great organizations who have hundreds of millions of dollars at stake in the South will begin a similar campaign for advertising this section. The great oil companies who have vast refinery interests in the South and hundreds of millions of capital invested in this section could well afford, we think, to follow the example of the Standard Oil Company as to New England and spend some hundreds of thousands of dollars in publicity work in behalf of the South.

There are other great corporations in addition to the Standard Oil Company which might well engage in similar activities. The United States Steel Corporation, for instance, has vast investments in Alabama, the value of which would be enormously enhanced as the prosperity of the South increases and the demand for steel products grows apace. Other companies which likewise have heavy investments in the South could engage in the same great work to their own profit and to the benefit not alone of the South but of the entire country, for the development of the material resources of the South will tremendously increase the prosperity of the country as a whole. Why should we not, therefore, see the beginning of a great campaign of publicity on the part of all interests, local and national, which have heavy investments in any part of the South and whose prosperity would be enhanced by the prosperity of the South? Here is an opening for limitless good for these varied interests if measured wholly from the selfish standpoint of their own welfare, but which likewise could prove of advantage to the nation.

In announcing the proposed action of the Standard Oil Company in behalf of that section, the New England Council through Dudley Harmon, executive vice-president, writes the MANUFACTURERS RECORD as follows:

"In harmony with the New England Council's policy of stimulating all organizations and interests having most at stake in the future of New England to greater activity and co-ordination of effort in the effective marketing of what they and New England have to sell, the Standard Oil Company is about to render a unique and constructive service to New England.

"In forthcoming issues of the Saturday Evening Post, the company will publish a series of three double-page, illustrated advertisements, each of which will carry the message: 'Come to New England!' The advertisements in this series emphasize, respectively, New England's historic scenes and associations, her recreational resources, and her business development. Each advertisement not only emphasizes one of these appeals, but each also carries more briefly a reference to the other two. Never before, since the Council was organized, has New England's tri-fold appeal been so elaborately, widely and effectively presented.

"At our request, the Standard Oil Company has furnished us advance proofs of the pages that will appear in the Post, and I take pleasure in sending you a set herewith. These pages demonstrate, in striking manner, what can be done in presenting to the world what New England has to offer and afford opportunity for stating that the New England Council, at a recent meeting, declared itself prepared to lend its good offices and co-operation to any group or interest in New England desiring to present, through the medium of advertising,

the advantages and attractions of New England in relation to their own products, resources or services."

We congratulate the Standard Oil Company and New England upon this movement. It will redound to the good of both. At the same time we would strongly urge that this new and remarkably interesting undertaking by one company be carried out as to the South by many companies; and to the Standard Oil Company, which is so heavily interested in the South, we would strongly urge a similar publicity campaign in behalf of this section.

Some years ago, a vice-president of the Standard Oil Company said to the MANUFACTURERS RECORD that the company and a number of its officials were so heavily interested in the South that they were necessarily vitally interested in everything which aided in the development of that section, for that meant larger prosperity for the company. Since then that company has invested hundreds of millions of dollars in the South and should therefore be still more deeply concerned as to its progress. Other great concerns, such as oil companies, hydro-electric companies and kindred interests, can rapidly enhance their own prosperity by broad publicity work in behalf of this section.

In this heavy advertising campaign of the attractions and advantages of New England, the Standard Oil Company is laying special stress upon the desirability of that section as a summer resort and advising people to motor there this summer. Great good will be done to New England. At the same time the increased consumption of gasoline brought about by these advertisements will doubtless repay the Standard Oil Company many times over, also help other oil and gasoline companies and likewise the motor industry generally. Why should not the great motor building companies of the country, instead of specifically advertising their own cars, occasionally heavily advertise the desirability of motor trips to different parts of the country? There are magnificent mountain resorts and marvelous mountain scenery in the Virginias, the Carolinas, and in Georgia and Alabama, as well as in more distant Southern States, pre-eminently desirable for summer motoring. Why should not these gas and oil companies advertise these sections as the Standard Oil Company is advertising New England for motoring, and why should they not all plan for a heavy campaign of this kind to encourage motoring throughout the South next fall and winter?

While the Standard Oil Company has selected one medium for its advertising of New England we would suggest to that company and all that may follow its example that there are other good advertising mediums.

BUILD NICARAGUAN CANAL.

D. P. GREER of the engineering department of the United Fruit Company, of Puerto Barrios, Guatemala, in renewing his subscription to the MANUFACTURERS RECORD says:

"Some months ago you promulgated the early construction of the Nicaraguan Canal, and we hope you may find time and space to continue that good work, as there are few things of such great importance to our national welfare."

Mr. Greer is a North Carolinian, located at present in Guatemala, and his views in favor of the Nicaraguan Canal as he sees the situation in that Central American region only serve to emphasize the importance of this project. Over and over again the MANUFACTURERS RECORD has insisted that the Nicaraguan Canal is a necessity to this country and must be built.

UNEMPLOYMENT DEMANDS THE BEST POSSIBLE STATESMANSHIP ON THE PART OF PUBLIC MEN AND BUSINESS LEADERS.

THROUGHOUT the country there is a great amount of unemployment. Hundreds of thousands of men, possibly some millions, are striving in vain to find employment to care for their families. The demand upon the charity organizations of the entire country for help for people out of employment is greater than it has been for many years. Under such conditions it behooves the statesmanship of the country, whether represented in Congress or in other legislative bodies, as well as in business leaders, to put forth their utmost efforts to create employment for the men and women who are now idle, looking for an opportunity for work.

Idle brains and idle hands are the devil's best workshops, and into the brains and hands of these millions of people out of employment the devil will pour every possible power that he has to create unrest, to develop socialism, and bolshevism, and communism, and to develop a spirit of hatred on the part of many of these people against those who are in better circumstances.

A few years ago Secretary Hoover wisely suggested that at such times the Government should throw into this vacuum its full force in construction work to tide the country over these periods of depression. Secretary Hoover recently wrote the MANUFACTURERS RECORD:

"Every officer of the Government is making every effort to promote public construction."

Every day's delay in this construction work on the part of the Government adds to the unemployment situation, and the mere announcement that the Government is to spend \$50,000,000 in building in Washington has drawn to that city thousands of men looking for work under the impression that this money was to be expended immediately. Recent legislation appropriating large amounts for public buildings has unwisely provided that this money is to be expended over a term of years. On the contrary, it should be spent just as rapidly as architects' plans and contractors' bids could make it possible to go ahead. Stretched over a period of years these expenditures will not count for very much, but if crowded into immediate construction activities this money would do an enormous amount of good by giving employment to idle men, by starting up an increased demand for building materials, increasing the traffic on the railroads, and in these various ways stimulating every activity of the country.

River and harbor work, flood control work, should all be carried forward as rapidly as the engineering plans make this possible, and the Engineering Corps, realizing their responsibility in the situation, should do its utmost to hasten every plan under which construction can be undertaken in the near future.

While this should all be done by the Federal Government, much could be done by individual business interests and by those who plan construction work of one kind and another and who have the money available. There is a great opportunity in all parts of the country for the building of dwellings by the people who are amply able to spend the money, and who fully intend in the near future to build. Now is the time when they can save much by building, and in doing

so give employment to those who are starving for lack of work.

The full employment of the now idle people would greatly help the agricultural situation, increase the consumption of farm products, and the farmers would thus be enabled to buy more heavily of manufactured products, and in this way the whole scheme of industrial and agricultural output would be rounded out and national prosperity tremendously augmented.

It is very generally believed that in order to bring about a better condition late this summer or fall for political effect, some things will be held back which could be done now in order to stimulate a boom period next fall. If that is true, and many feel that it is, those who are guilty of that position are trifling with the needs, indeed with the lives, of millions of idle men and women.

HOW TO GET BUSINESS.

THERE is always some business in this country when the right man hustles for it with the right kind of activity. Men not qualified for salesmanship may sometimes make a failure in getting business, but business is to be had somewhere when the right man goes after it in the right way.

During 1927 a large proportion of the cotton mills of the country complained of hard times, but the American Wool and Cotton Reporter tells a story of what one Southern concern did in bringing about a 300 per cent increase of its business in 1927, in a way which should stimulate every other industry. It says:

"One of the mills in La Grange, Ga., has sent a statement to the trade that, because of a 300 per cent increase in their business in 1927, they have felt it advisable to divide the company into five separate companies.

"The most interesting part of this story is the 300 per cent increase in business in the year 1927. It isn't location that accounts for the great success of the Valley Mills and the other Callaway Mills. Right in the same section there are plenty of mills that have had no such satisfactory business experience as this. The success of the Callaway Mills is due to new machinery, good management, excellent merchandising, creation of demand. One of these Callaway Mills sells tremendous quantities of yarn to a big New England pile fabric mill. While many of the New England yarn mills never approach the neighboring pile fabric mill, Callaway has salesmen calling on every possible buyer.

"A lot of these New England yarn mills that are kicking about business conditions don't have any salesmen at all. They 'save' the salaries that they would pay the salesmen."

The MANUFACTURERS RECORD, for instance, has been told on numerous occasions that business was so dull in Florida it would be impossible for a subscription representative to increase the circulation of this paper in that State at the present time. We were almost inclined to believe that these statements might be correct. But we put into that field a hustling man who has been getting more subscriptions than we ever secured during the period of the wildest activity in Florida a few years ago.

Success depends largely on getting the right man whatever may be the business which is being pushed. There may be disadvantages, of course, in facing adverse business conditions and under the conditions prevailing during the last 12 months in business generally many concerns have been inclined to withdraw from publicity activity, drawing in their salesmen and simply sitting down supinely waiting for "something to turn up." They claim that they could not do enough business to pay the traveling expenses of salesmen, but the success of these La Grange, Ga., mills under the superb management created by the late Fuller E. Callaway proves that somebody can get business even under adverse conditions.

[From Emporia, Kan., Gazette.]

"Onward Christian Soldiers."

"The other day 'away down South in Dixie,' James Cannon, a bishop of the Methodist Episcopal Church, South, becoming irked with the way Northern capital was rushing into the South and taking advantage of the Tory labor laws and labor conditions which have endured down South because of the fear of the black man, came out with an indignant statement. He objected particularly to the fearful condition in the mill villages, and was especially wrathful at the attempt to substitute welfare work for decent wages and wholesome working conditions. In many states in the South in the bishop's diocese an 11-hour day and the 12-hour night prevail, and the 60-hour week is common all over North Carolina and Georgia. The 55-hour week prevails in South Carolina. The bishop demands that the present 11-hour day in Georgia and a possible 10-hour day for South Carolina children between 14 and 16 years old should be shortened at once. He also demands 'the abolition of an all night 12-hour shift for women or for men either,' and he insists that 'night work for women should finally be abandoned.' Said he:

"Such hours are ignorance breeding, brutalizing, cruel and inhuman, and except in rare cases preclude all opportunity for self-culture and development, and cannot be justified by any plea of economic pressure."

"The bishop denounced the child labor conditions of the South and says the laws 'fail to require a certificate of physical fitness and of the school superintendent of the completion of the elementary grades by children between 14 and 16 before going into regular work.'"

"One of the other things said was this:

"Justice and philanthropy are entirely different things and the denial of human rights cannot be justified or compensated for by a program of social service however elaborate or benevolent."

"If the barbarous labor conditions of the South are changed they must be changed by the churches of that region. They cannot be changed by the politicians nor by the school men. Here is Jesus' own job of 'doing unto others as you would have others do unto you' set out for the churches of the South clear, and unmistakably plain. If they rise to it they will justify the creed of the founder of Christianity. If they fail they will have overlooked the opportunity of the times. Certainly no one can preach 'Christ and him crucified' when men, women and children are underpaid, overworked and suffering in any state."

The Emporia Gazette in the foregoing article is just about as far from the facts as it is possible for its editor to get, as far even as Bishop Cannon was in making such statements. There are no "barbarous labor conditions" in the South. The labor conditions in that section do not in the slightest justify the statements credited to Bishop Cannon, nor do they in any way whatever justify the comments made by the Emporia Gazette. The mill labor of the South is not underpaid, not overworked, and is not suffering from barbarous labor conditions as claimed by the Gazette.

The cotton mills of the South have been the greatest missionaries ever brought to the people of that section, who have entered these mills from their little mountain homes where the conditions under which they lived were somewhat barbarous. Gathered into the cotton mill villages these people have had better physical conditions, better homes, better food and better opportunities for the enjoyment of life than they had under the conditions in which they formerly lived.

The mills have given these people an opportunity for profitable employment, and they have given to the teachers and the ministers of the Gospel a better opportunity than they have ever had before to reach this class of people. Their religious and educational advantages are, therefore, far and away above what they were in their former homes.

If the employers of labor in Kansas can show any such good conditions as prevail in most of the cotton mills of the South, we will be glad to have the Gazette prove that fact. In most of these mill villages the employers are furnishing well built dwellings, renting at from 50c to 75c per room per month. In other words, a four room house costs \$2 a month.

These houses generally are equipped with all sanitary conditions, bathrooms, electric lights, etc. These employes are enabled to buy fuel at the wholesale rates paid by the company. They are encouraged to raise flowers, and prizes are offered for the best display of flowers. The streets are well paved, churches are well maintained; splendid buildings for the Y. M. C. A. and the Y. W. C. A. exist in most of these mill villages, built by the mills as an investment for the betterment of their employes. Schools are well maintained, and to a large extent the mill village schools are superior in a good many respects to the schools in the adjacent towns, and are open for a longer period in the year. Every effort is made by the mill owners to encourage the children to attend these schools which, of course, are entirely free. Welfare workers are employed to look after the families and to encourage them in matters of housekeeping, and the maintenance of health of themselves and of the children.

Can Kansas show any better record?

William Allen White, editor of the Gazette, doubtless honestly believed that labor conditions in the South are "barbarous," but this only serves to show how thoroughly this section has been misrepresented by those upon whom Mr. White depended for his information.

BALTIMORE GAS AND ELECTRIC COMPANY BUYING FRENCH GAS PIPE.

A YEAR or so ago, the MANUFACTURERS RECORD criticized rather sharply the Baltimore Gas and Electric Company for buying French pipe in preference to American gas pipe. That company is wholly dependent on the employment and prosperity of the people of Baltimore for its own prosperity, and, broadly speaking, it is dependent on the prosperity of the country for its own prosperity. It would seem, therefore, that the company, as well as other public utility companies, should recognize this peculiar situation and use only American made material, in order to increase the employment of American people. Notwithstanding this situation, however, this American gas and electric company continues to buy French pipe.

We have learned from reliable sources that the company has been buying French pipe in large quantities for several years; that the reason given is the claim they can get the pipe at lower prices than American pipe, and it is said, of at least as good quality. It is also stated as an excuse that the company buys this cheap pipe "as a duty to its stockholders," to save money. It is held that "the low price enables it to employ more men in laying it" and finally, "the Government pockets the duty on the pipe."

We cannot accept any of these as reasons for ignoring American made pipe and buying foreign stuff. Every ton of pipe bought abroad lessens the employment of American labor in mining ore and coal and in the manufacture of the pig iron and from that into the pipe. It lessens the employment of labor on the railroads to haul the pipe. Moreover, the company owes a duty to the city, which it should not shirk and we seriously doubt if buying American pipe would lessen its prosperity for its stockholders.

It seems to us to be a rather far-fetched argument that by buying the low priced French pipe it is enabled to employ more men in laying it. While the country receives the small duty on the pipe, that does not at all offset the loss by American industries by the purchase of this pipe. Every ton of foreign pipe bought by an American gas and electric company, or by any other public utility concern, reduces to that extent the employment of American labor, without giving the consumers to whom all public utility companies owe a duty, any

benefit of lower prices for gas or electricity by reason of buying foreign pipe.

Viewed from the standpoint of the MANUFACTURERS RECORD, the purchase by public utility companies of foreign material of this kind is economically unwise and lacking in that patriotism which should consider first the general welfare and prosperity of America, rather than saving a few odd dollars, which, perchance, may be saved by buying foreign stuff.

In order to emphasize the situation we repeat the story which we have often published, but which can be studied to advantage by American public utility companies. Prior to the World War, a German public utility concern bought some American material which was offered at a lower price than the German stuff. Shortly thereafter, at a public reception, Emperor William called to his side the president of the German company and inquired about the purchase, and the president admitted that he had bought American material, with the statement: "Business is business, and I bought the American stuff because I could buy it at lower price than German stuff." Emperor William said to the president of the company, so the MANUFACTURERS RECORD was advised some years ago by one who was familiar with the transaction: "You are operating a utility company, the success of which depends entirely upon German patronage. Do you not owe something to your own country?" When the president tried to explain his reason for buying the American material, the Emperor said to him, as reported to this paper: "When next you need material, I suggest that you buy German stuff and send me a memorandum of the difference between its cost and that of America, and I will send you my personal check for the difference." It is needless to say that the lesson was well learned and that the German utility company never afterward undertook to buy foreign material.

The lesson is one which public utility companies such as gas and electric companies, railroads and others, may well take to heart, and remember that their prosperity depends upon the employment of American labor, and the prosperity of American labor is due to high wages as compared with the starvation wages of their competitors in Europe. In our opinion the Baltimore Gas and Electric Company is making a very serious tactical blunder, which may some day react upon it in many ways.

THE TIDE HAS TURNED.

THE Michigan State Journal in an editorial discussing the Southward movement of development pays the following tribute to that section, and its outlook for the future:

"The South is beginning to invite as never before. There have been reasons aplenty why the South has lagged, why it has gone pretty much unnoticed while the United States developed tremendously elsewhere, but the day of those specially retarding influences must be pretty nearly over. At no distant day the great development of the South is likely to come with a rush. When the great day of the South comes it will find itself with a homogeneous population. It will draw its new influx of population from the North. With our immigration laws as they are now, the South will fill up with those already here rather than with new material comprised of those who do not know our ways. That will give the South a tremendous advantage. Nowhere in the world today is there such a comparatively hollow pocket waiting to be filled. The old plantation days are about over. Schools and factories and great industrial projects are going in. * * * National progress will set its next step in the South."

It is an interesting fact that the newspapers of the entire country are now beginning to speak of the South in the same way that the Michigan Journal talks of the future of that section. The spirit of jealousy which once existed seems to a large extent to have passed away, and now the papers of the country which once glowingly told of the wonderful opportunities of the West with almost as much enthusiasm tell of the possibilities and progress of the South.

The tide has turned.

A STATISTICAL ANALYSIS OF OUR EDUCATIONAL PROGRESS.

IN next week's issue of the MANUFACTURERS RECORD there will appear a most exhaustive analysis of the nation's educational growth and facilities. This discussion is the third study of a series on junior education and employment made by the Junior Education and Employment Committee of the National Association of Manufacturers. It is based on a statistical study of the growth of American education by Howell Cheney, of Cheney Bros., who is chairman of the Junior Education and Employment Committee of the National Association of Manufacturers. Elaborate colored charts, devised by John P. Lamb, Chief Statistician of Cheney Bros., picture the statistical study with telling effect.

There are eight of these charts. The first graphically presents the public funds invested in public elementary and secondary schools. Chart Number 2 gives the details of income and expenditures per pupil in attendance. Number 3 analyzes the distribution of expenses in various types of schools and offers many interesting comparisons. Number 4 shows the trend of annual expenditures of public elementary and secondary schools by states. Number 5 compares the salaries of supervisors and principals in different school divisions of various cities and also compares the salaries of teachers. Number 6 illustrates the average annual salaries of teachers, supervisors and principals combined in public elementary and secondary schools for each state. Number 7 illustrates the trend and distribution of enrollment in various types of schools since 1900 and Number 8, the final chart in the series, shows the proportion of total pupils enrolled attending high schools throughout the various states for various years.

The study is presented with the idea of aiding taxpayers, parents and educators in their attempt to interpret facts and to arrive at an answer to such questions as—

- 1—How many have actually benefited by the increased educational opportunities offered?
- 2—Which methods have produced the best results?
- 3—Which wastes can be eliminated?
- 4—What are reasonable and unreasonable costs?
- 5—What finally are our objectives and to what extent are we achieving them?

Some weeks ago the MANUFACTURERS RECORD published "The Tenth Generation," by Harry Stillwell Edwards, and thousands of copies of this story in pamphlet form have been and are continuing to be distributed throughout the United States. It is an appeal for education from an entirely new standpoint and is of interest to all who are concerned in the welfare of boys and girls, in creating educational opportunities for them and in the responsibility of wealth to safeguard their future and all future generations. It is fitting, therefore, that the statistical study of the remarkable educational advance made by the United States, which the Junior Education and Employment Committee of the National Association of Manufacturers is sponsoring, should be published at this time. All the facts show the great strides made in recent years in education, in plant expansion and in general expenditures. They also bring out defects which should be remedied. We invite the attention of our readers to this article which as we said in the opening sentence is to appear in the coming issue.

Geological Reports of Two Counties.

The West Virginia Geological Survey, Morgantown, has published a 624-page illustrated book giving a detailed report on Hampshire and Hardy counties, together with accompanying topographic and geologic maps of each county. The price is \$3.

What the Farmer Forgets About the Tariff.

By ARTHUR P. CHEW, Washington, D. C.

As it was bound to do eventually, the controversy over agricultural relief has become a tariff controversy, pure and simple. It has had a tariff angle from the start. When the first McNary-Haugen bill was brought forward in 1923, it was called a plan to make the principle of the protective tariff effective for agriculture. But, at that time, farmers made no general attack on our tariff system. They merely demanded equality for agriculture through the enactment of a law to segregate export surpluses from domestic supplies of agricultural products, so that the tariff would become more effective for agriculture in the home market. They said, however, that if this means of leveling agricultural prices up was not adopted they would see what could be done about leveling industrial prices down.

This was, of course, the same as saying that the farmer considered his problem a part of the tariff problem. It implied that he blamed the tariff for the disparity between the prices of farm products and the prices of industrial goods, and intimated that relief could be obtained either by price-fixing for agriculture or by the denial of tariff protection to industry. The McNary-Haugen bill has been thrice rejected—although in the last instance only by Presidential veto. Accordingly, some farmers are working on the other alternative of their relief program. They are demanding drastic downward tariff revisions. Resolutions have been introduced in Congress calling for immediate lowering of tariff schedules, as a means of equalizing things between industry and agriculture.

It would be hard to imagine a more mistaken and potentially disastrous proceeding. Farmers are entirely wrong in supposing that the present tariff system works against their interests. As a matter of fact, agriculture would lose more than industry from a successful attack on the tariff, because its competitive position is more vulnerable. Today, agriculture is moving steadily toward a position in which many of its leading products will be on an import basis, and will thus profit materially from the tariff. On the other hand, industry is moving toward an export basis. In these circumstances, an attack by agriculture on the tariff is sheer insanity.

This country is entering a situation in which tariff protection will be more necessary and more valuable to agriculture than to industry. Were this truth understood by the farmer, he would be the strongest ally of the manufacturer in the struggle to retain the home market for the home producer. Farmers, however, in the matter of the tariff, are clinging to a Nineteenth Century point of view, although Twentieth Century economic conditions are in the sharpest possible contrast. This makes them easy prey for the banking interests who want help in getting lower tariffs to facilitate the collection of foreign debts. On the other hand, it makes them oppose the manufacturer, with whose interests theirs at bottom are identical.

It has been said that the tariff does no good to agriculture because it is an export industry, and that, on the contrary, it is a gold mine to manufacturers, because manufacturing is on a domestic basis. This is one of those dangerous half-truths that are more harmful than absolute falsehoods. Dr. O. E. Stine, of the Department of Agriculture, says that about one-third of our agricultural production meets the products of foreign competitors in our own market. Farmers ought to

As Mr. Chew shows, agriculture not only benefits directly and materially from the American protective tariff now, but also will benefit in greater degree as time goes on. Already the protective tariff is necessary for agriculture; in a short time, it will be imperatively necessary. Mr. Chew's article is especially convincing in that he bases his conclusions on actual facts, rather than on theories or on specious arguments.—Editor MANUFACTURERS RECORD.

be careful about jeopardizing that third of their business merely for the purpose of taking a whack at industry by means of tariff reductions. Moreover, the proportion of agriculture's domestic business is destined largely to increase. Our exports of corn, dairy products, beef and spring wheat have steadily declined since the war. Our production of these goods is close to the margin between

the export and the import basis. Another decade of increasing population may shift the balance permanently to the import side.

One or two facts about the present basis of some branches of farming should be useful. About 20 per cent of the sugar consumed in the continental United States is produced here. The rest is imported. We import 55 per cent of our wool supply, 49 per cent of our flaxseed, 40 per cent of our edible nuts, 17 per cent of our lemons, 12 per cent of our cheese, 11 per cent of our peanuts, and 7 per cent of our onions. In the calendar year 1924, 45 per cent of our imports of dutiable articles consisted of essentially competitive agricultural products. It is therefore obvious that a large proportion of our farmers are subject to keen foreign competition, not simply in foreign markets, but in the domestic market. These farmers would probably find themselves in the bankruptcy courts were tariff protection taken from them.

Much is made by low-tariff advocates of the fact that our cotton, hog products, tobacco and soft wheats are sold heavily in foreign markets. This fact is supposed to be sufficient reason for committing the farmer to a low-tariff policy. Goods produced greatly in excess of home consumption, we are reminded, necessarily rest on a world price basis, and derive no benefit from the tariff. But, many of the farmers producing these goods also produce other things that do benefit from the tariff. Moreover, some of the farm products of which we usually have an exportable surplus enjoy an advantage that ought to be regarded as fair compensation for the lack of tariff protection. American cotton production dominates the world's markets; so does American hog production. Hence, our cotton and hog producers have the remedy for low prices in their own hands. In a lesser degree, some types of American tobacco occupy a similar strategic position. As for wheat, our farmers are doing things with tractors and combine harvesters that have lifted that commodity definitely out of the distress class.

As the relationship of agriculture to the foreign market is the crucial point, it may be well to probe the matter more closely. Our changing position is illustrated by the fact that at the beginning of the Twentieth Century we were exporting about 31 per cent of our wheat production; in the years immediately preceding the world war, the proportion dropped to 14 per cent. In the same period, our exports of packing-house products declined one half. Simultaneously, keen competition developed abroad in the production of foodstuffs. Russia, India, Australia, Canada and South America began to supplant us in world markets for agricultural products. South America, as a hint of what is coming, sent surplus farm production to us. Our growing population gave the farmers an expanding home market to compensate for their declining foreign trade. Accordingly, they did not suffer prior to the post-war depression period. They were, nevertheless, obvi-

ously in retreat before foreign competition, and faced having to meet it at home. The danger was not actually upon them; but, it was not distant.

When the farmer prepares to smash the tariff, he shows that he has done no useful thinking about the diminishing part played by agricultural products in our export trade. In 1880, agricultural exports made up 84.3 per cent of our total domestic exports; by 1900, the percentage had fallen to 61.6; by 1920, it had fallen to 48.8, and by 1926 to 40.7. A brief reversal of the trend occurred during the war, but it has now been resumed, with increasing momentum.

Foreign competition is a problem for every farmer in the country. Those who are producing for export must meet it abroad. But, that is no reason why those who are not producing for export should be forced to meet it at home, particularly when we consider how their number is increasing. No thoughtful person supposes, of course, that protection for agriculture could be retained if protection for industry were sacrificed, though some farmers naively talk in the same breath about lowering the industrial and raising the agricultural duties.

Attacks now launched against the tariff center attention on those farmers who, from the nature of their production, are not in a position to profit from tariff protection. Inferentially, it is suggested that they should play a dog-in-the-manger policy. If this proposal were made by the enemies of agriculture, it would be understandable; but, it is made by the farmers' own spokesmen, whose first care should be to make sure, before launching a tariff revision program, that they are not brandishing a two-edged sword.

One obstacle to co-operation between farmers and manufacturers for rational tariff protection is misinformation as to what the tariff costs the farmer. Farmers are seldom reminded that many of the articles which they buy are on the free list, and that the duty on a great many other articles is purely nominal and ineffective. Imports on the free list during the last two years represented approximately 58.5 per cent of our total imports. More important, however, than the quantity of nondutiable articles imported, is the fact that all such articles are necessarily on a world price basis. Agricultural implements and machinery, which are on the free list, are imported only in small amounts; yet, for the bulk of their farm machinery, the farmers of the United States pay lower prices than do the farmers of other countries. Other nondutiable articles which farmers buy include harness, leather boots and shoes, cattle and horses imported for breeding, rough lumber, fertilizer, gasoline and binder twine. Certain articles on which there is a duty, like medium-priced automobiles and furniture of the type commonly used by farmers, cost less in this than in other countries.

All such citations, however, are open to the objection that they do not disclose all the items in the balance sheet. It is interesting, but not conclusive as evidence, to note cases in which the tariff has benefited the farmer directly. Thus, in May, 1925, we imported 351,000 pounds of butter; in the same month of the following year, after the duty on butter had been raised from 8 to 12 cents a pound, our imports of butter were only 103,000 pounds. For four years after the emergency tariff went into effect in May, 1921, the average annual price of No. 1 dark northern spring wheat at Minneapolis ranged from 16 to 27 cents a bushel above the level of a comparable grade at Winnipeg. But, a reliable estimate of the cost and worth of the tariff to agriculture, in dollars and cents, would necessitate a Herculean labor of accounting and balancing of opposing items.

It is not necessary to undertake that job in order to show that the tariff is valuable to agriculture. That necessarily follows from the steadily increasing importance of the protected home market and the declining importance of the foreign market to the farmer. Each year, the tariff becomes

effective for more and more crops formerly influenced mainly by foreign conditions. On the other hand, the tendency of the tariff to raise the prices of the goods that the farmer buys is held in check by increasing competition among American manufacturers, and also by the tendency of industrial production in some lines to move on to an export or world-price basis. Agriculture in the next 20 or 30 years will regard the tariff with new eyes. It will want increased protection in the home market against Canadian wheat, against Argentine corn and beef, against Australian wool, against New Zealand dairy products, and against Canadian, Mexican and Central American fruits and vegetables. If it now compromises its right to ask protection, by launching an attack on protection for industry, it will most certainly repent.

In the general case made out for the farmer against the existing tariff system, it is asserted that the tariff is the principal cause of the present disparity between the prices of farm commodities and the prices of other goods. This is utterly absurd. No such disparity was caused by the tariff before the war, and since the war many other things capable of causing it have entered the economic situation. Among them are the slow rate at which agriculture has been adjusted to post-war conditions, the impoverishment of some of its important foreign markets, and the reduction of farm costs of production by extensive substitution of machine power for animal and human labor. How little the tariff has to do with the price disparity is indicated by the fact that after the McCumber tariff was put in effect the disparity instead of increasing, diminished. Last year it declined further, and promises to disappear. So, farmers who cannot as yet benefit from the tariff have no reason to stand in the way of those who can. And the latter group will eventually be the majority.

\$6,000,000 Gas Project in the Carolinas.

The proposed project of Arthur J. Smith, Chicago, who has obtained franchises to supply artificial gas to a number of cities in the Piedmont district of North and South Carolina, is estimated to involve the expenditure of \$6,000,000. The enterprise will operate one or more central plants and will require about 1100 miles of gas mains, in addition to gas-making machinery, gas holders and compression tanks, as well as gas compression tanks in the cities served, gas meters and governors, and equipment for cooking, heating and refrigerating and for industrial work. An engineer's report, soon to be ready, will outline the cost of construction, size of pipe required, capacity of tanks, holders and gas machines to be installed, etc.

Kraft Cheese Factory Welcomed.

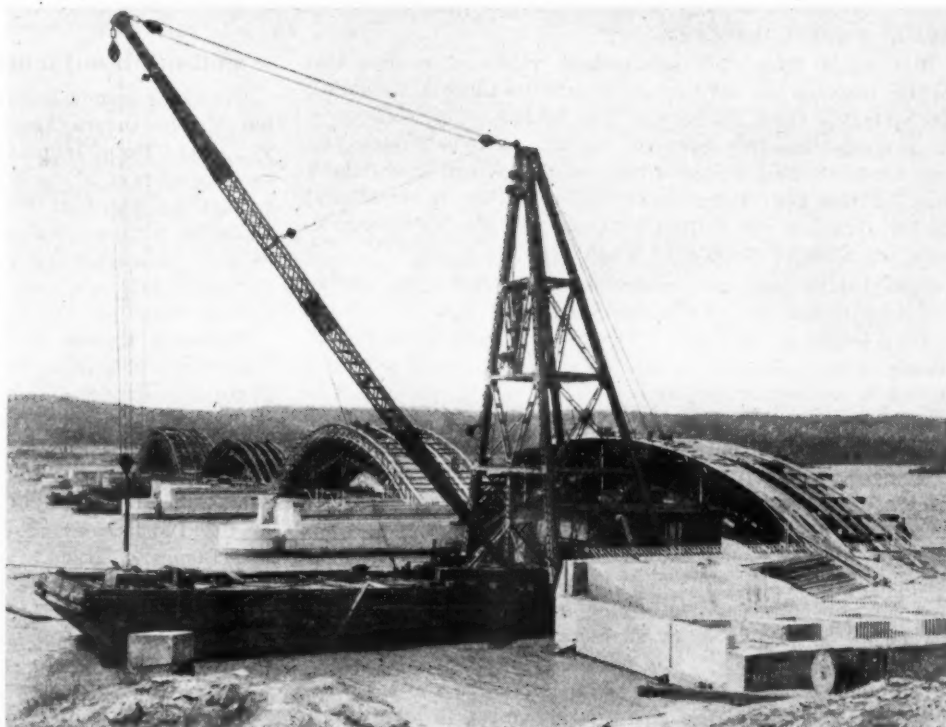
Carlisle, Ark.—Warm welcome was given to a pioneer in a new industry here at the opening of a Kraft cheese factory, Governor Parnell and other State officials and hundreds of visitors joining the people of Carlisle in a public celebration. At a meeting in the rice warehouse, used as an auditorium, J. H. Kraft, youngest of the brothers interested in this great enterprise which is spreading through the South, gave promise for future development. At present, there are 30 Kraft factories in the South, representing \$1,000,000 of investment.

Bids for Foundation of \$10,000,000 Government Building.

Washington, D. C.—Bids will be received May 21 by the Treasury Department, James A. Wetmore, acting supervising architect, for the foundations for the \$10,000,000 building for the Bureau of Internal Revenue. The structure will be 450 by 400 feet, 5 stories to the entablature with a sixth story back of the roof balustrade. Edw. H. Bennett of Chicago, is the consulting architect.

The Arlington Memorial Bridge.

President Andrew Jackson's Dream of Spanning the Potomac to Be Fulfilled — Construction Under Way on Project, Which, When Completed, Will Cost Nearly \$15,000,000.



PROGRESS ON CONSTRUCTION OF THE ARCHES.

A splendid dream, conceived by President Andrew Jackson about 80 years ago and made more appropriate by the Civil War and its outcome, is now well on its way to completion in the beautiful Arlington Memorial Bridge being built to connect the Lincoln Memorial, in the national capital, with the former estate of the great Confederate leader, Robert E. Lee, across the Potomac River in Virginia.

On July 4, 1851, Daniel Webster said of the plan:

"Before us is the broad and beautiful river, separating two

of the original thirteen States, which a late President, a man of determined purpose and inflexible will, but patriotic heart, desired to span with arches of ever-enduring granite, symbolical of the firmly established union of the North and the South. That President was General Jackson."

If it was appropriate then, before the Civil War was fought, to connect two of the original thirteen States by a symbolic bridge over the river separating them, how much more appropriate it is today to symbolize the indissoluble union by connecting the Southern State—and that particular



SHOWING PIERS AND ABUTMENTS COMPLETED—LINCOLN MEMORIAL AND WASHINGTON MONUMENT IN BACKGROUND.

spot in the Southern State that was the home of the greatest of the Confederate leaders—with the national capital; and especially to link it with the memorial to the great man who guided the Union through the bitter days of the war that so nearly wrecked the Union.

But aside from this sentimental value of a memorial bridge between the old Lee estate and the Lincoln Memorial, probably the chief function of the bridge today is to serve as a connecting link between the city of Washington and the national cemetery at Arlington. Moreover, it will be a link in the Lee Highway, stretching across the continent to Los Angeles, and in that highway will provide a magnificent entrance to the city of Washington.

The bridge will have nine spans, a draw span in the center with four graceful masonry spans on each side, giving a total length of 2173 feet. The roadway will be 60 feet in width, with a 15-foot sidewalk on each side, making a total width of 90 feet in the clear.

Construction will be of reinforced concrete faced with granite to harmonize with the granite base of the Lincoln Memorial. That for the piers and abutments—\$300,000 worth of it—came from Stone Mountain, near Atlanta; a peculiarly appropriate source, since it is on the opposite side of that immense outcrop that the great Confederate Memorial, with Lee at its head, is being carved. The granite for the superstructure will come from Mount Airy, N. C.; \$1,500,000 is the value of such granite called for by the contract.

The design of the bridge is simple, dignified and beautiful. The center span, which is a bascule draw, is identical in design with the others, and when closed, can scarcely be identified as a draw span.

The project that is designated as the Arlington Memorial Bridge includes the parking of much of the land about each end, to make the bridge merely one unit in a magnificent, unified memorial scheme. A traveler approaching Washington from Virginia by way of the Lee Highway must pass over Arlington Heights. At that point he gets his first view of the bridge. In the distance lies the Potomac river; beyond it stretch green, beautifully-landscaped grounds from which rises the knoll crowned by the splendid Lincoln Memorial, with the lofty needle-point of Washington Monument towering beyond it. The center-line of the Mall laid out about the Washington Monument and the Lincoln Memorial is also the exact center line of the stretch of the highway approaching the river, and as one draws near, the graceful lines of the bridge will appear at an angle on the right. At the river's edge the highway turns to the right and runs through a park flanked by the sea wall on the right and the Arlington Memorial on the left. A short, straight stretch of roadway along the river bank—or, to be exact, down the center of Columbia Island, which lies very close to shore on the Virginia side—crosses the section that runs in a straight line from the Lincoln memorial to the entrance of the Arlington National Cemetery. Here the Lee Highway turns to the left, crosses the Potomac River over the Arlington Memorial Bridge, and reaches the Lincoln Memorial and the city of Washington.

The total estimated expenditure for the bridge proper is \$7,250,000, while the cost of the completed project, including improvements to river banks, parking in highways and landscaping about both ends of the bridge, brings the total to \$14,750,000.

Construction of the arches is now under way, the piers and abutments having been completed in January. While the whole project will not be complete for seven or eight years yet, it is expected that the bridge will be thrown open to traffic in the spring of 1930.

Contracts for the bascule draw span, for paving and lighting the bridge and other work about the approaches, have

not been let. Plans for the bascule are about complete, and contract will be let shortly as the bascule is to be finished simultaneously with the roadway. By 1935 the whole comprehensive plan should be completed.

Cotton Manufacturers to Meet at Richmond.

The thirty-second annual convention of the American Cotton Manufacturers Association will be held in Richmond, Va., at the Hotel Jefferson, May 17 and 18, preceded, on the evening of May 16, by a meeting of the board of governors. Indications are that it will be one of the most largely attended textile meetings held in the South at any time. Present industrial and economic conditions and the manufacturers' determination to improve them will form an important topic for discussion.

President George S. Harris is regarded as a practical mill man and a close student of textile conditions and his address is expected to be a high point of the convention, while general reports will show much activity and many accomplishments. George E. Roberts, vice-president of the National City Bank of New York, will discuss "The Stress of Present-Day Competition," and Dr. Julius Klein of the Department of Commerce will speak on "Foreign and Domestic Trade." Walker D. Hines, president of the Cotton-Textile Institute, Inc., will detail the development and progress of that organization, and W. D. Anderson, president of Bibb Manufacturing Company, Macon, Ga., will discuss "Some of the Conditions Confronting the Cotton Mills in the South."

The banquet will be held May 17, Mr. Harris presiding, and an address by Captain Irving O'Hay, and at the same time the local committee will give a dinner to the visiting ladies at the Commonwealth Club. The ladies are to be entertained on that day at a luncheon at the Country Club of Virginia.

Miss Catherine Dozier of the Pacolet Manufacturing Company, Pacolet, S. C., will speak on the second day, on "Educational Advancement in Cotton Mill Villages," and Miss Marjorie A. Potwin of the Saxon Mills, Spartanburg, S. C., will talk on "Societal Engineering." An executive business session will follow, after which the convention will adjourn. Besides a large attendance of manufacturers, there will be many associate members present, representing commission houses, selling agents and other circles.

The officers of the American Cotton Manufacturers Association are: George S. Harris, Atlanta, president; H. R. Fitzgerald of Danville, Va., and Arthur M. Dixon of Gastonia, N. C., vice-presidents; W. M. McLaurine, Charlotte, N. C., secretary and treasurer; State Association Presidents: Chas. G. Hill, North Carolina; J. C. Evins, South Carolina; J. J. Scott, Georgia; Scott Roberts, Alabama; A. W. McLellan, Louisiana; C. R. Miller, Texas.

\$10,000,000 Industrial Development and Railroad Projected Near Beaumont, Tex.

Beaumont, Tex.—Colonel R. C. Duff, of Houston, president of the Waco, Beaumont, Trinity and Sabine Railway Company, which plans to build a railroad from Waco to Port Arthur, through Beaumont, has secured options on 14,000 acres of waterfront properties for an industrial development estimated to involve the expenditure of \$10,000,000. The Sabine-Neches Development Company will be organized to handle the industrial sites which front for 10 miles on the Sabine-Neches waterway and Taylor's Bayou. While the railroad is building, it is understood, the waterfront properties will be utilized for the construction of wharves and slips and other shipping facilities at a cost of about \$5,000,000. The railroad is expected to be completed within two years.

National Foreign Trade Council Stresses the Importance of the South.

[Special Correspondence Manufacturers Record.]

Houston, Tex., April 28.

Not even the absence of Chairman James A. Farrell, whose duties as president of the United States Steel Corporation called him to Europe at this time, depressed the 1000 delegates and visitors present at the annual meeting of the National Foreign Trade Council, or detracted from the interest in the discussions of the important subjects presented. This was the first time in 15 years that Mr. Farrell has not presided.

In the emergency, Eugene P. Thomas, president of the United States Steel Products Corporation, occupied the chair and also made one of the most important addresses of the session. Mr. Farrell had prepared his customary address, with which the convention always is closed, and it was read in his absence.

Possibly the most interested visitors were to be found in a party from Baltimore, Md., where the convention next year is to be held. Determination was expressed by them to uphold the standard of hospitality and efficiency which have brought so many of the conventions of this organization to Southern cities and, while the convention in 1930 will be held on the Pacific coast, hope is entertained in the South that the Council will turn again to this section in 1931—a hope which was shared by many of the visitors and no few members of the Council.

While trade with the Latin-Americas was the subject selected by Mr. Farrell for consideration at this convention, the addresses branched out far into collateral and other lines, and the meeting was pronounced one of the most important in the series. That the South will play an outstanding part in the development of trade with Mexico, Central America and South America, was the opinion of all the participants. Not that they regarded the South in the light of merely a beneficiary because of its geographical position, but rather that they looked to it to stimulate commerce with the Latin-Americas and also to stimulate American industry for the development of that commerce. Through every port of the South, Southern products, both natural and fabricated, are expected to pour down to the nations to the southward; through every port of the South, all finely equipped for handling the trade, is expected to pass a tremendous proportion of the goods which will come from the southward. The fields and the mines and the mills of the South will share generously in the Latin-American trade, and the South will act as the distributing point for imports from the Latin-Americas.

The importance of Southern ports was concretely indicated by disclosure that over 800 ships of the United States Steel Corporation had visited the port of Baltimore in 1926, and it is understood that at least that number called with or for cargoes last year, although in Mr. Farrell's absence the exact number could not be ascertained. And Baltimore is only one of the Southern ports showing, proportionately, the same splendid record. Also, as Mayor Oscar F. Holcombe of Houston pointed out in his address, "Ten years ago, Houston had no exports; today, Houston ranks as a major port," and: "It is very fitting that we hold this convention in Houston, a city which had the enterprise and civic pride to bring a port 50 miles inland," said Mr. Thomas.

Of prime importance was the speech of Mr. Farrell, which read, in part, as follows:

"We who are assembled in this foreign trade convention are actuated by a single, simple and worthy motive: We stand for better conditions of life for all the peoples of all

the world. Naturally, we in the United States think of the problem first in terms of ourselves. But even as we do so we know that those terms include all other peoples everywhere else. For the isolation of peoples is ended, and the isolation of individuals is rapidly becoming less possible.

"One of the indications of the accelerating pace of world commerce that many of our traders have felt in their own business is the stiffening competition they are encountering in some of the so-called neutral markets. But we are meeting it, and it justifies a certain optimism on our part that our sales are expanding just as rapidly as, and in many cases a little more rapidly than, those of our competitors. And we must not forget that, while we are encountering the competition of other industrial nations, they in turn are encountering our competition in the same fields, and if we may judge by the reports of their field observers they have a growing respect for American merchandising skill.

"There is a specially significant phase of last year's trade figures. It is that, although total values of raw material imports, both into the United States and into other industrial nations, were smaller than in 1926, volume of such imports was generally larger. That means, of course, increasing production. That definitely indicates continuation for some time, at least, of the stiffer competition just referred to, for the immediate effect of expanding industrial activity is naturally more active sales effort. The ultimate effect, however, is a more cheerful subject of contemplation. For out of increased production and sale comes inevitably increased consumption. It is in the narrow market that competition is most severely felt. As the market broadens, that severity decreases.

"It is only natural that Europe, which suffered most from the war, should be slowest in gathering headway for recovery. In our eagerness to get ahead, we must not be impatient at Europe's lower rate of progress. Americans have already been vastly helpful in many ways, which is both appropriate and creditable. But continuation of that course need not involve us in any departure from sound economic method or legitimate business endeavor. It is not necessary for us to relax our efforts in any market in order to speed up European recovery. We shall be better able to keep up, and even expand, our present course of helpfulness by going on with the forward movement of our trade, than we should be by restricting our efforts for the purpose of giving wider scope to European activities. Curtailment of our enterprise for such a purpose would not only prove detrimental to us, it would not benefit Europe. She will complete her recovery and regain prosperity by hard work, not on doles.

"In desiring to see all of Latin America always stable, strong and peaceful, we are not actuated by idealism or altruism. For we know that peace is the best condition for trade and prosperity. Therefore, we want Latin America peaceful. We know that trade is the chief agency of prosperity. We seek prosperity for ourselves, and we seek it through trading with Latin America. Therefore, we want Latin America to increase in prosperity, so that out of her increase in trade we may derive a share."

The declaration of the Council advocated privately owned and operated American shipping; improvements in existing shipping, trading and customs regulations and procedure.

James P. Butler, president of the Canal Bank and Trust Company, New Orleans, turned the thoughts of the delegates to the Gulf ports when he spoke on the "Foreign Trade Developments in the Gulf States." First citing the advantageous geographical position of the Gulf States to Latin and Central America, he added: "In the immense Mississippi Valley we find 54 per cent of the population of our country, 75 to 80 per cent of its minerals, 80 per cent of our crops, and over 50 per cent of our national manufactures." There, he felt, was opportunity for trade.

C. M. Peter, export manager for the Black and Decker Manufacturing Company of Towson, Md., in speaking on the subject of "Preparatory Market Analysis," said that every

person in every country in the world is to be regarded as a potential purchaser of American products, and also he praised the various foreign trade information services, particularly that of the Department of Commerce. "It is our experience," Mr. Peter told the foreign traders, "based on numerous investigations, that no manufacturer should sit in lone judgment on his own marketing problems; always, we have found the need of the fresh, unbiased viewpoint, backed up with cold facts."

On the other hand, D. E. Delgado of the Eastman Kodak Company, Rochester, N. Y., expressed doubt as to the value of the information service provided by the Commerce Department and others, and asserted that, during his 34 years of experience as an exporter, he had found it necessary to make his own channels, and that this had been done for his company by establishing subsidiary companies in 172 foreign cities.

The American manufacturer can make his product so attractive in the foreign market that the dealer will have to carry it, because the purchaser will want to buy it, was the tenor of a paper prepared by Henry H. Morse, general sales manager of the Florence Stove Company of Boston, who pointed out that an important question to be solved was what the market required. After determining how best to meet these requirements, the manufacturer must figure his costs "with a sharp pencil."

In a discussion of credit and finance, advertising and co-operation with distributors and agents, Allan B. Cook, vice-president of the Guardian Trust Company, Cleveland, Ohio, declared that it is no more difficult to grant credit to a foreign customer than to a domestic one. Also, he told the foreign traders that they must be prepared to meet the liberal credit terms offered by foreign competitors. "The day is passed," he said, "when shippers can demand unreasonable terms of payment, in the face of European competition conducted along more liberal lines."

The question of advertising was considered by J. W. Sanger, vice-president of the Foreign Advertising and Bureau Service, Inc., New York, who said that America had the edge in foreign trade because of its effective advertising. "In the last analysis," he said, "all export problems are sales problems; for, without sales, no other problems exist. The tangles you seek to unravel are only incidentally those of production, transportation, finance and credits; for, those factors are only the raw materials out of which sales are made. Distribution is the cry of the times, both at home and abroad."

Several hundred of the delegates attended a luncheon of the American Manufacturers Export Association at the Rice Hotel, and made a trip down the Houston Ship Channel on the steamer West Camak, especially loaned by the United States Shipping Board, through General A. C. Dalton, its chairman, who attended the convention.

Cuba furnished a note in the minor key, when its Ambassador to the United States, Dr. Orestes Ferrera, complained about the American tariff on sugar and tobacco as a deterrent on Cuban progress and expansion, and threatened higher and heavier duties "should there persist the hostile attitude of the whole world toward our sugar and tobacco."

"Painful though it may be," his address said, "it is a necessity to which we shall be subjected and which we dare to forebode in the hope that we may be spared from taking such drastic action, which constitutes our only supreme remedy."

In contrast with this were the statements of Don Carlos G. Davila, Ambassador from Chile, and of Manuel Mayo Barrencheaux, of Los Angeles, delegate of the Confederated Chambers of Commerce of Mexico City, both of whom pointed to the accord between their countries and the United States.

Walter Parker, economist for Fenner and Beane, New York

and New Orleans, voiced the hope of peace and amity in Latin America as an impetus to foreign trade in that section. "Latin America is ready for development," Mr. Parker said, "and the United States is in a position to foster it," adding that an "annual in and out trade of \$10,000,000,000 between Gulf ports of the United States and Latin America is not an unattainable goal."

Following adjournment of the convention sessions, about 250 of the delegates went on a special trip through the Sabine district, which includes the ports of Port Arthur, Orange, Beaumont and Lake Charles. Others went for a visit to old Mexico.

\$1,500,000 Acca Temple Completed in Richmond.

Construction has recently been completed on a \$1,500,000 building in Richmond, Va., for the Acca Temple Shrine, of which Mayor J. Fulmer Bright is potentate and James H. Price, recorder. The structure has an auditorium seating 5000; banquet hall, 2200, and 40 bedrooms with baths. It also contains a swimming pool, bowling alley, pool room, billiard room, gymnasium, clubrooms, lounges and offices of the Temple. Marcellus E. Wright and Charles M. Robinson, Inc., both of Richmond, are associated architects, Mr. Wright having designed the structure, while engineering details were handled by Mr. Robinson's office. The building was erected by the Wise Granite and Construction Company, Inc., Richmond, under the supervision of the building committee, of



THE NEW SHRINE TEMPLE.

which Clinton L. Williams was chairman. Principal sub-contracts include the following:

Architectural terra cotta—Atlantic Terra Cotta Company, New York.
Brick work and interior partitions—Fulton Brick Works, Richmond.
Electrical work—Morris Hunter, Richmond.
Finishing hardware—Tom Jones Hardware Company, Inc., Richmond.
Freight elevators—Salem Iron Works, Salem, Va.
Glass and glazing—Binswanger & Company, Inc., Richmond.
Granite—Lemerman & Hofmann, Mt. Airy, N. C.
Heating and ventilating—American Heating and Ventilating Company, Inc., Richmond.
Hollow metal doors—Dahlstrom Metallic Door Company, Jamestown, N. Y.
Kalamain doors—Coburn Trolley Track Manufacturing Company, Holyoke, Mass.
Limestone—Indiana Limestone Company, Bedford, Ind.
Metal doors—S. H. Pomery Company, Inc., New York.
Millwork—Sitterding-Carneal-Davis Company, Richmond.
Ornamental iron—Richmond Structural Steel Company, Inc.
Painting—W. D. Timmons, Richmond.
Passenger elevators—Otis Elevator Company, New York.
Plastering—W. A. Brand, Richmond.
Plumbing—Carle-Boehling Company, Inc., Richmond.
Reinforcing steel—Southern Steel Products Company, Inc., Richmond.
Roofing and sheet metal—R. E. Piper, Richmond.
Structural steel—Phoenix Bridge Company, Phoenixville, Pa.
Tile—Richmond Tile & Mosaic Company.

A Great Hydro-Electric Plant Near Louisville.

AUTOMATIC FEATURES OF OPERATION REDUCE NECESSARY SUPERVISION ALMOST TO THE VANISHING POINT.

One of the country's largest automatically controlled hydro-electric stations is operating on the Ohio River at Shippingport, just below Louisville, Ky. Because of its automatic features, it calls for the guidance of only two men, a supervisor and a floor attendant. The station was erected for the Louisville Gas & Electric Company and in design, construction and operation it embodies radical departures from conventional practice.

The present installation consists of eight water turbines of the propeller type, designed to operate at a maximum head of 37 feet. Each runner is 15 feet in diameter—said to be the largest of this type ever constructed—and passes 4000 cubic feet of water per second at full gate opening. Each



INTERIOR OF POWER HOUSE.

Eight water turbines of the propeller type, designed to operate at a maximum head of 37 feet, are direct connected to a vertical-type 14,000-volt alternating current generator. Each machine is designed to deliver 10,400 kilowatts at full head. Provision is made for the installation of two additional units.

Each turbine is direct connected to a vertical type generator operating on a terminal voltage of 14,000. Space is provided in the building for two more units, which will bring the ultimate capacity of the station to 125,000 kv-a.

A unique feature of the station is the electrical layout. The conventional switchboard has been eliminated and has been replaced by individual control panels installed in cabinets or "cubicles" alongside of each generator. Double doors at the front and back of the cubicles permit easy access to the control devices and their wiring. The front doors are fitted with glass so that all devices and instruments may be seen without opening the doors. A supervisory control cabinet is centrally located in the station and is so designed as to enable the chief operator to supervise the switching throughout the station and to check all meter readings without leaving his desk.

Each generator is protected against abnormal conditions such as overspeed, overheated bearings, loss of field, over voltage, phase balance, etc., by means of relays which operate to disconnect the generator from the line and shut down the unit. These many supervisory and automatic features combine to make this plant what is described as the largest hydro-electric plant now operating with automatic control.

The power plant forms the down-stream end of an L-shaped dam about 8650 feet long, the building being of reinforced concrete, 534 feet long and 74 feet wide. The headworks platform is three feet above the normal upper pool level. Mechanical

equipment consists of a 20-ton gantry crane which handles the head-gates, trashracks, and stop-logs, and an auxiliary hoist which operates the mechanical rack-rake. This rack-rake is designed to trip at the upper limit of its travel and to deposit rubbish in a trough running the full length of the power house. The turbine room is equipped with a 125-ton overhead crane capable of handling any of the generator or turbine parts.

The Louisville Gas and Electric Company, which owns and operates a modern steam plant of 92,500 kilowatts in Louisville and a distributing system in the city and its environs, constructed the plant through its subsidiary the Louisville Hydro-Electric Company, and with the co-operation of the Byllesby Engineering and Management Corporation, Chicago, and the United States Government.

A general description of this plant and an outline of the Government's plan for canalization of the Ohio to make the river navigable the year round at a cost of \$85,000,000 was published in the *MANUFACTURERS RECORD* of April 4, 1927.

The following manufacturers furnished equipment for the plant:

Air filters, vents, etc.—Reed Air Filter Co., Louisville, Ky.
Batteries—Electric Storage Battery Co., Philadelphia, Pa.
Cast iron columns, etc.—Wheeling Mold and Foundry Co., Wheeling, W. Va.
Cranes, sheaves, etc.—Link Belt Co., Chicago.
Copper—American Brass Co., Waterbury, Conn.
Crane—Whiting Corp., Harvey, Ill.
Drums—Newport News Shipbuilding & Drydock Co., Newport News, Va.
Electric cables—American Steel and Wire Co., Chicago.
Fans, etc.—Buffalo Forge Co., Buffalo, N. Y.
Float and thermostatic traps, etc.—C. A. Dunham Co., Chicago.
Generators, motors and miscellaneous electrical equipment—General Electric Co., Schenectady, N. Y.
High Pressure Pipe—U. S. Cast Iron Pipe and Foundry Co., East Burlington, N. J.
Heating unit, etc.—Stannard Power Equipment Co., Chicago.
Locomotives—Geo. Whitcomb Co., Rochelle, Ill.
Lighting fixtures and miscellaneous equipment—Graybar Electric Co., New York.
Metal doors and shutters—Variety Fire Door Co., Chicago.
Oil filtering equipment—S. F. Bowser Co., Fort Wayne, Ind.
Paint—Detroit Graphite Co., Detroit, Mich.
Pumps—Chicago Pump Co., Chicago.
Rolling steel door—Kinnear Mfg. Co., Columbus, Ohio.
Roofing—Johns-Manville Co., New York.
Steel dump cars—Western Wheeled Scraper Co., Aurora, Ill.
Sheet piling—Bethlehem Steel Co., Bethlehem, Pa.
Sluice gates—Chapman Valve and Mfg. Co., Indian Orchard, Mass.
Sash, putty, glass, etc.—Truscon Steel Co., Youngstown, Ohio.
Smokeless boiler—Heggie-Simplex Boiler Co., Joliet, Ill.
Subway grating—Irving Iron Works Co., Long Island City, N. Y.
Transmission line and fittings—Lapp Insulator Co., Le Roy, N. Y.
Turbine equipment, pump, frames, boring, rig, etc.—Allis-Chalmers Co., Milwaukee, Wis.
Tie rings, towers—Lakeside Bridge and Steel Co., Milwaukee.
Traveling crane—Niles Crane Corp., Philadelphia.
Valves, and fittings, radiators, joints, pipe, etc.—Crane Co., Chicago.

Davison Chemical Company Acquires Florida Phosphate Rock Property.

The Davison Chemical Company, Baltimore, has purchased through Hayden, Stone & Company, 160,000 shares of stock out of 239,754 shares outstanding of the Southern Phosphate Corporation, the deal involving about \$1,526,000. C. Wilbur Miller, president of the Davison company announced that the acquisition entailed no increase in the capitalization or any kind of financing by the Davison Company. This purchase gives the Baltimore company control of one of the largest deposits of phosphate rock in Florida and, in connection with the alliance previously made with the Rio Tinto Company for its supply of pyrites, completes its protection for all of its raw materials.

The Southern Phosphate Corporation last year produced more than 250,000 tons of phosphate rock. The property is said to contain 23,000,000 tons of the material.

A Platform for American Industry and Agriculture.

Conviction that the material welfare of the United States demands that the industry and business of the land shall exercise a guiding influence in the conduct of the country's affairs will be translated into action this month, when representatives of all the basic industries will assemble in New York City to formulate the Platform of American Industry. This group, composed of 100 manufacturers and general business men, has been brought together by the National Association of Manufacturers and the platform will be presented to both the major political parties as guiding principles for the conduct of the business of the Nation.

Belief that such a platform is absolutely necessary for continuance of business prosperity is unanimous among these industrial and business leaders. Further, they are agreed that the platform must be non-partisan, but exact in terms and designed for the benefit of all the people, rather than for promotion of any selfish advantage to industry alone.

As John E. Edgerton, president of the National Association of Manufacturers, explains:

"Government is mainly the business of guiding a great family of people in the paths of physical peace, welfare and prosperity. * * * The United States is by nature an industrial nation. It has become great and prosperous. But, neglect of our individual obligations means neglect of our group obligations and thus on into neglect of our national government, with resultant unwise laws. * * *

"Manufacturers bear a heavy responsibility in the employment of millions of people. They have business and management knowledge that should be of assistance to those operating the national business machine. They believe, as citizens interested in the progress of the Nation, that they have an obligation to submit to the major political parties such suggestions as they are confident would make for the better conduct of the national business. Hence, their effort to build a Platform of American Industry which shall reflect the essence of the Nation's successful industrial experience."

Part of the views of Charles Cheney of Cheney Brothers, a great textile concern, South Manchester, Conn., follows:

"We have now reached a point in the nation's development in which industry is occupying first place among the various activities of the people in this land. This is true both as to the value of products and the numbers employed. The nation must inevitably be concerned in a very vital manner with everything affecting its largest activity and, obviously, it cannot wisely proceed to legislate in regard to such activities without benefit of guidance and suggestion from those who are occupying places of leadership in industry."

A. L. Humphrey, President, Westinghouse Air Brake Company, Pittsburgh, Pa., says, in part:

"Thirty years ago, it was generally claimed that the interests of capital and labor were 'definitely opposed.' Now it is generally recognized that the exact opposite is true and that these interests are, in fact, 'absolutely mutual.' Today, there is a political faction attempting to set up a similar and even more destructive fallacy as between agriculture and industry. Modern conditions create and compel the interdependence of all individuals and groups and for agriculture and industry this principle is particularly fundamental and far-reaching. The Committee of One Hundred could exercise no more useful influence or timely function than to aid these basic elements in an endeavor to find a common ground of understanding so necessary to their mutual interests and national prosperity."

At a meeting of the Platform of American Industry Committee, held in New York last September, with 75 foremost representatives of many industrial, commercial, transportation, agricultural and other lines in attendance, the following titles for planks were specified: (1) Government and Business; (2) Taxation; (3) Regulation of Combinations; (4) Employment Relations; (5) Transportation; (6) Immi-

gration and Naturalization; (7) International Relations; (8) Tariff; (9) Foreign Trade Policies; (10) Merchant Marine; (11) Federal Reserve Bank System; (12) Waterways Development; (13) Flood Control; (14) Agriculture.

The specific recommendations in each plank will be decided upon at the forthcoming meeting in May.

To every member of this committee the MANUFACTURERS RECORD has written an urgent letter on the importance of stressing the points made by Mr. Humphrey as to the interdependence of agriculture and manufactures. Neither can prosper unless the other is prosperous. Farmers have been made to believe that the manufacturers of the country do not realize the agricultural situation and that they do not sympathize with the plight of agriculture. This committee can do no greater work for all interests than to show its full understanding of farm problems and the need of a protective tariff to safeguard agriculture from destructive competition of farm products raised where labor cost is far and away below America's standard.

With Mr. Edgerton as chairman, the full membership of the Platform Committee is as follows:

ALABAMA—C. M. Jespersion, Treasurer, Southern Manganese Corp., Anniston; Julius Goslin, President, Joubert & Goslin Machine and Foundry Co., and John L. Kaul, Kaul Lumber Co., Birmingham.

CALIFORNIA—Constant Meese, 500 Lake Park Boulevard, Oakland.

COLORADO—E. J. Yetter, President, Western Elaterite Roofing Co., Denver.

CONNECTICUT—F. S. Chase, President, the Chase Companies, Waterbury; Charles Cheney, President, Cheney Brothers, South Manchester; Willis F. Hobbs, President, Bridgeport Hardware Manufacturing Co., Bridgeport; Clarence E. Whitney, President, Whitney Manufacturing Co., Hartford.

DELAWARE—Joseph Bancroft, President, Jos. Bancroft & Sons Co., Wilmington.

GEORGIA—W. B. Baker, President, Atlantic Ice and Coal Corp., Atlanta; E. R. Richardson, Vice-President, Ocean Steamship Co. of Savannah; Sam Tate, President, Georgia Marble Co., Tate.

IDAHO—W. S. Rosenberry, Winton Lumber Co.

ILLINOIS—Wm. S. Bennet, Edw. Hines Lumber Co.; C. A. Dunham, President, C. A. Dunham Co.; Ernest E. Jones, President, McRae's Blue Book Co.; J. L. Kraft, President, Kraft Cheese Co.; Robert P. Lamont, President, American Steel Foundries; E. B. Leigh, President, Chicago Railway Equipment Co.; C. H. Markham, Chairman of the Board, Illinois Central System; A. H. Mulliken, President, Pettibone-Mulliken Co.; B. J. Mullaney, Vice-President, Peoples Gas Light & Coke Co.; F. Edison White, President, Armour & Co., all of Chicago; George A. Williams, President, Williams Sealing Corp., Decatur; William B. Story, President, Atchison, Topeka & Santa Fe Railroad, Chicago; William Butterworth, President, Deere & Co., Moline.

INDIANA—H. C. Atkins, President, E. C. Atkins & Co., Indianapolis; John Andres, Secretary, Standard Brick Mfg. Co., Evansville; S. D. Bechtel, President, S. F. Bowser & Co., Fort Wayne.

IOWA—C. S. Walker, 4225 Grand Avenue, Des Moines.

KANSAS—Harry Sharp, Associated Industries of Kansas, Topeka.

KENTUCKY—W. Hume Logan, President, Logan Company, and Philip S. Tuley, Louisville Cotton Mills Co., Louisville; E. J. Scott, Vice-President, Smith & Scott Co., Paducah.

LOUISIANA—Charles deB. Claiborne, Whitney Central National Bank, New Orleans; A. J. Peavy, Peavy-Wilson Lumber Co., Shreveport.

MAINE—Charles Ault, Treasurer, Ault-Williamson Shoe Co., Auburn; Philip Dana, Treasurer, Dana Warp Mills, Westbrook.

MASSACHUSETTS—Clifford S. Anderson, The Norton Co., Worcester; H. C. Beaver, the Rolls-Royce Company of America, Springfield; Charles R. Gow, President, Charles R. Gow Co., Boston; F. C. Hood, President, Hood Rubber Co., Watertown; Daniel De Menocal, Vice-President, First National Bank, and R. E. Thompson, Vice-President, Gillette Safety Razor Co., Boston; Albert B. Wells, American Optical Co., Southbridge; A. L. Green, Farr Alpaca Co., Holyoke.

MARYLAND—F. Highlands Burns, President, Maryland Casualty Co., Baltimore.

MINNESOTA—H. H. Bigelow, President, Brown & Bigelow, St. Paul; D. F. Bull, Treasurer, Cream of Wheat Co., Minneapolis.

MICHIGAN—W. A. Layman, 125 Belvedere Ave., Charlevoix; Thomas M. Simpson, Secretary, Continental Motors Corp.; John Trix, President, American Injector Co., and A. T. Waterfall, Vice-President, Dodge Brothers Co., all of Detroit.

MISSISSIPPI—L. N. Dantzler, President, L. N. Dantzler Lumber Co., Gulfport.

MISSOURI—J. T. Caradine, President, Caradine Hat Co., St. Louis; H. I. Finch, President, Emerson Electric Mfg. Co., St. Louis.

NEBRASKA—C. B. Towle, Vice-President, Towle & Paine Co., Lincoln.

NEW HAMPSHIRE—Rolland H. Spaulding, Spaulding Fibre Co., Rochester.

NEW YORK—Henry Abbott, President, Calculagraph Co., New

York; William H. Barr, President, W. H. Barr, Inc., Buffalo; Newcomb Carlton, President, Western Union Telegraph Co., New York; C. S. Ching, United States Rubber Co., New York; H. W. Cook, President, A. E. Nettleton Co., Syracuse; O. D. Frost, President, Champlain Silk Mills, New York; N. J. Gould, President, The Goulds Pumps, Incorporated, Seneca Falls; Samuel Graydon, President, Stillson Press, New York; Carl Hallauer, Bausch & Lomb Optical Co., Rochester; E. M. Herr, President, Westinghouse Electric and Manufacturing Co.; Colonel Charles F. H. Johnson, Vice-President, Botany Consolidated Mills, Inc.; Fred I. Kent, President, Bankers Trust Co.; J. W. Leib, Vice-President, The New York Edison Co.; E. E. Loomis, President, Lehigh Valley R. R. Co.; Clarence B. Lee, President, United States Radium Corp.; William McCarroll, 150 Nassau St., all of New York City; F. L. Morse, President, Morse Chain Co., Ithaca; Morgan Parker, President, Bard-Parker Co., New York; Matthew S. Sloan, President, Brooklyn Edison Co., Brooklyn; James L. Walsh, McGraw-Hill Co., New York; Joseph F. Weller, President, Kellogg Manufacturing Co., Rochester.

NEW JERSEY—W. A. Anderson, John A. Roebing's Sons Co., Trenton; C. R. Burnett, Secretary, American Oil and Supply Co., Newark; William A. D. Evans, President, Cooper-Hewitt Electric Co., Hoboken; Enos Paullin, Secretary, Ferracute Machine Co., Bridgeton; A. R. Wendell, Vice-President, the Wheatena Co., Rahway; F. R. Valentine, M. D. Valentine & Bro., Woodbridge.

OHIO—S. P. Bush, Vice-President, American Rolling Mill Co., Middletown; Frank Collins, Executive Vice-President, National Supply Co., Toledo; F. R. Fishback, President, Electric Controller and Manufacturing Co., Cleveland; W. W. Freeman, Vice-President, Columbia Gas & Electric Corp.; P. O. Geier, Cincinnati Milling Machine Co., Cincinnati; Henry Howard, Grasselli Chemical Co., Cleveland; Charles B. King, Vice-President, Marion Steam Shovel Co., Marion; H. J. Monson, President, Guide Motor Lamp Manufacturing Co., Cleveland; John F. Ohmer, President, Ohmer Fare Register Co., Dayton; George M. Verity, President, American Rolling Mill Co., Middletown.

PENNSYLVANIA—C. W. Asbury, Vice-President, Enterprise Manufacturing Co., and W. W. Atterbury, President, Pennsylvania Railroad Co., Philadelphia; Hays H. Clemens, Treasurer, Hays Mfg. Co., Erie; Frank Disston, President, Henry Disston & Sons, Inc., Philadelphia; A. L. Humphrey, President, Westinghouse Air Brake Co., Pittsburgh; George L. Markland, Chairman of the Board, Philadelphia Gear Works, and Allen Mitchell, Jr., Allen R. Mitchell & Son, Philadelphia; E. W. Nick, President, Northern Equipment Co., Erie; Staunton B. Peck, Vice-President, Link-Belt Co.; John W. Snowden, Stead & Miller Co.; Stanley R. Stager, President, Jonathan Ring & Son, Inc.; Ernest T. Trigg, President, John Lucas Co.; William J. Wall, President, Nicetown Dye Works, all of Philadelphia.

RHODE ISLAND—Henry D. Sharpe, Treasurer, Borwn & Sharpe Mfg. Co.; William L. Sweet, Treasurer, Rumford Chemical Works; George H. Wilson, Secretary-Treasurer, U. S. Bobbin and Shuttle Co., all of Providence.

SOUTH CAROLINA—Ellison A. Smyth, President, Belton Mills, Belton.

TENNESSEE—John E. Edgerton, President, Lebanon Woolen Mills, Lebanon; I. B. Merriam, President-Treasurer, Chattanooga Boiler and Tank Co., and E. H. Scholar, President, Chattanooga Implement and Mfg. Co., Chattanooga; E. J. McMillan, Standard Knitting Mills, Knoxville; J. B. Hill, Nashville, Chattanooga & St. Louis Ry., Nashville.

UTAH—D. C. Green, Vice-President-General Manager, Utah Power and Light Co., Salt Lake City; Sidney J. Jennings, President, United States Fuel Co.

VIRGINIA—Henry W. Anderson, Richmond; H. R. Fitzgerald, President, Riverside & Dan River Cotton Mills, Inc., Danville; Hugh R. Hawthorne, Secretary and General Counsel, Pocahontas Fuel Co.

VERMONT—James F. Dewey, A. G. Dewey Co., Quechee; J. G. Estey, President, Estey Organ Co., Brattleboro.

WASHINGTON—J. P. McGoldrick, President, McGoldrick Lumber Co., Spokane.

WEST VIRGINIA—J. G. Bradley, President, Elk River Coal and Lumber Co., Dundon.

WISCONSIN—W. W. Coleman, President, Bucyrus Company, South Milwaukee; E. J. Harvey, Harvey Spring and Forging Co., Racine; W. W. Nichols, Allis-Chalmers Mfg. Co., and J. H. Puelicher, President, Marshall & Hilsley Bank, Milwaukee.

Oklahoma Coal Deposit Map.

The Department of the Interior announces the completion of a new map of the coal outcrop in the Stigler area, in Oklahoma, including segregated Choctaw and Chickasaw coal lands. The outcrop as mapped in 1927 differs considerably from the survey in 1904. The present map includes the area south of the Canadian River, from Whitefield to Keota. Blue line prints are available from the superintendent of the Indian Office at Muskogee and from the Geological Survey office at McAlester, Okla.

Plans Sale of \$500,000 Hospital Bonds.

Clayton, Mo.—Bids for the purchase of \$500,000 4½ per cent bonds, a part of a \$1,000,000 issue authorized for the construction of a hospital, will be received until May 21 by St. Louis County, P. G. Deuser, treasurer. Plans for the proposed hospital are being prepared by Aegerter & Bailey, St. Louis.

BIG PAPER AND BAG MILL UNDER WAY SOON IN ALABAMA.

Orders Placed for Part of Machinery for Plant At Tuscaloosa—Plans for Buildings Being Rushed.

Construction is expected to begin soon on the big paper mill and bag plant at Tuscaloosa, Ala., for the E. Z. Opener Bag Company of Decatur, Ill., as a switch track is now being laid and the foundation for the wood room is under construction. The plant buildings will cover an area of 600 by 280 feet, to be of reinforced concrete and steel with brick curtain walls, gypsum slab and composition roofs, the latter to have doubled glazed skylights and ventilators. Plans call for steel rolling doors, kalamein doors, iron stairs and fire escapes, elevator enclosures and concrete, wood or wood block floors.

A building to house individual bag-making machines will be 280 by 220 feet, three stories, while the paper and pulp mill will be 280 by 110 feet, two stories. The beater building will be 75 by 110 feet, three stories, and the digester building, 70 by 90 feet. Other buildings will include a recovery room, 165 by 60 feet; wood room, 50 by 50 feet; power plant, 120 by 110 feet; machine shop, 100 by 100 feet, and a store room and office, 80 by 80 feet.

A paper-making machine, to cost approximately \$481,000, is said to have been ordered from the Beloit Iron Works of Beloit, Wis. It will be capable of making 1000 feet of paper per minute with a width of 234 inches, the entire plant to have a capacity of 90,000,000 pounds of finished paper and bags per year, or 300,000 pounds per day. The annual consumption of coal is estimated at 270,000 tons and the operation of the plant will require 90,000 cords of wood annually. W. E. Spink of New Orleans, La., is the architect.

New Steamship Line for New Orleans.

New Orleans, La.—The Redwood Line, Inc., a subsidiary of the Finkbine-Guild Lumber Company, was recently organized with Theodore Brent as president, to operate a line of steamers between New Orleans and Pacific Coast points, making this city its port of registry. In connection with the Illinois Central Railroad, the company has established through-freight rates which will place the Mid-West on a competitive basis with the Atlantic seaboard and will result in a reduction in the cost of transportation between the Mid-West and Pacific Coast, it is said. Other steamship lines and railroads, it is thought, will enter into similar arrangements and through rates will also probably be established with the Mississippi-Warrior barge lines.

The Finkbine Lumber Company owns two lumber towns at Wiggins and D'Lo, Mississippi, and about two years ago, when its timber supply began to run low, in order that the towns should not be deserted and its land go back to stumpage, it bought a large tract of redwood in California and began shipping logs to its mills at Wiggins and D'Lo. To facilitate operations, the company organized the Finkbine-Guild Transportation Company and purchased five vessels from the United States Shipping Board. Redwood has been transported on these vessels through the Panama Canal to Gulfport, and from Gulfport to the mill towns over the Gulf and Ship Island Railroad.

\$300,000 School Unit Contract Awarded.

Contract for the first unit of the new buildings of Friends School, Baltimore, has been awarded to Thomas Hicks & Sons, Inc., Baltimore, and construction is expected to begin at once. The building will cost about \$300,000. Mottu & White, Baltimore, are the architects.

John W. Carpenter—Builder.

By MILES C. SHOREY.

[The people of this generation know very little about the daring pioneer spirit which settled Texas in the days when it took men of heroic courage, of unbendable backbone, men of mighty brain and brawn power to meet the problems of those days. Texas was in the rough. Law and order had to be enforced by individuals as well as by State officers. The Texas Rangers became a tremendous power for good in those early days when cattle thieves ranged the land, robbing the cattlemen right and left; when drinking and the wildest gambling prevailed in the frontier towns, with every man ready at any moment to defend himself or his property with a pistol and ready at the same time to join the law forces as they hunted for the cattle "rustlers" and other thieves and murderers, always ready to risk their lives in work of this kind. Then was born a spirit of initiative, of self-reliance, of vision, and tremendous working ability, which has come down to the Texas people of the present generation. The pioneers of olden days were the forbears of the men and women of this generation. It is doubtless through the inherited traits of character that much of the progress of Texas of recent years is due. The spirit which made the Pacific Coast, the West and Texas is a spirit which never knows defeat.

In the following story about the work of John W. Carpenter, one of the great leaders of Texas, this point is emphasized. It is worth studying as to what Texas is doing, and what it will do, as illustrated in the life of this one man, as typical of the spirit and work of many Texans.—Editor Manufacturers Record.]

There is more than a biography back of that wide desk in the president's office of the Texas Power and Light Company. There is something besides impersonal ability behind those soft gray eyes of John W. Carpenter. This, one muses, is one who has lived, rather than merely existed. Yet, intensely human and with a vital "something" that attracts other men to him in enduring loyalty, he is no aloof sovereign—this head of a great utility organization. Like other pieces of human clay, he must face problems, must make decisions and, no doubt, must sometimes make mistakes.

Even as a lad of 15, John Carpenter displayed traits of a character that has stood him well throughout his notable career. Indeed, "John began to be a man at 12," a friend told me. "He was a wonderful cotton picker, 500 pounds being for him a proper day's work. That is one reason why he was such a fine handler of hired help even then, when the responsibility of the farm had fallen almost entirely upon his small shoulders. The negro pickers found him a keen director, because he took the lead in picking and expected them to follow right along."

It was at 19 that John left the Navarro county farm and sought work at the electric power and light plant in Corsicana, obtaining his first job from F. N. Drane, a banker and then the principal owner of that enterprise. His salary at the beginning was \$30 a month, and the first work he performed was the digging of post holes for the erection of a power line. Soon, he advanced from the pole-digging gang and was transferred to the duties of maintaining the lamps on the streets and to work as a general helper in line construction. His next promotion, all within a year, was to a regular job as "trouble shooter," and on many a cold and rainy night, at dreary 2 or 3 o'clock, he hitched up the nag and sought the broken wire or the fallen pole.

John Carpenter's first ambition was college. He managed to attend the North Texas State Teachers College at Denton for a season, but due to responsibilities at home and

lack of funds, he was unable to continue; whereat, he took a correspondence course in electrical engineering. Then, not content to surrender his aspirations, he opened correspondence with the General Electric Company concerning its engineering course at Schenectady, N. Y., and, when informed that none but college men would be admitted, he went personally knocking at the school's doors, determined that he would stay in Schenectady until they were opened to him. In a letter from Mr. Drane, in 1905, his employer said:

"Mr. Carpenter is one of the best men I have ever had to work for me. He has right ideas as to the relation between himself and employer. He is as faithful as a dog, as industrious as sunshine and almost as constant as gravitation; always even tempered, thoughtful, watchful; always ready and willing, in hours, out of hours and at all hours; he doesn't watch the clock, but does watch for leaks and things that need doing and does them now; he believes prevention is better than cure; that a stitch in time is better than nine. He is a student, progressive, desires to improve himself—and we desire to help him do so, though we hate to spare him to go away."

So John Carpenter, at Schenectady in the General Electric shops, studied in off hours at Union College, and in time, as a full-fledged electrical engineer, was given an Ohio commission by General Electric.

Inevitably, in view of John's characteristic persistence, he returned in due course to Texas, his State beloved, and to Corsicana, the home town that had given him his start—this time in the role of manager and then president. At last he was really launched upon his career, the career that has carried him so far, won him so many friends and meant so much in the development of industrial Texas. From the presidency of the Corsicana Power Company, he was elevated to vice-president and general manager of the Dallas Power & Light Company and won the general managership and presidency of the Texas Power and Light Company—which summary tells little of the many honors and responsibilities that have been accorded him in recent years. True, he is president of the Texas Elec-



JOHN W. CARPENTER.

tric Service Company, and likewise of the Dallas Railway and Terminal Company; he is a director in several financial institutions, of the State Fair of Texas, of the Texas Cotton Palace and in the East Texas Chamber of Commerce.

There has been much of work in the life of this builder and there is much of work in the map he has laid out for the future. He is hardly more than a young man now, only 46 and well conditioned. And his face is yet set toward the rising of new suns, the lighting of new homes, the easing of old burdens and the energizing of new industries. He is given to thinking in terms of service to mankind rather than in kilowatt hours. He gauges progress not so much by the extension of high lines as by making available comforts and conveniences, by creating new wealth, by improving working conditions and by developing natural resources. Also, he has a way of gathering around him men of similar beliefs and ambitions, and his army of employes burns with the same infectious zeal as does John Carpenter himself.

Mr. Carpenter advocates Texas for textiles. Mills have come and mills are coming as a result of his faith and his works. He actively campaigns for dairying, and cheese factories, plants for the making of milk products, and dairies appear hither and yon in the great State. He says, "Tell the world about Texas," and presently newspapers and magazines far and wide clamor to print the truth about the awakening empire of the Southwest. All this may be coincidence, or it may be Carpenter. The power company executive himself would say it is Co-operation.

Mr. Carpenter is chairman of the Texas Industrial Committee, appointed by Governor Moody to devise means for the development of manufacturing within the State. He is a regent of the Texas Technological College, and has been no small factor in the rapid growth of that institution. He has gone to the East and brought back parties of investors, to open their eyes to Texas and its possibilities. He has sent personal emissaries to tell the rest of the country about Texas climate, Texas resources and Texas people. He has encouraged his companies to advertise the State in all its magnificent reality.

What has been his actuating motive? First of all, love of his native heath. Also, there is the element of gratitude, an earnest effort to repay to a State that has been the making of a man. And then, in addition, there is the faith that as

Texas is built so shall the builders of the State be repaid.

John W. Carpenter presides over 3810 miles of electric light and power lines, criss-crossing an area of some 500 miles east and west and 300 miles north and south. These lines have added conveniences and power facilities to a number of farms, and it is toward rural electrification that this farm-bred man is laboring day by day.

Here is a giant of industry who looks like a human being. He appears equally at home in fishing togs or hunting jacket, in the midst of his church circle or in the bosom of his family. A man of quiet power and carefully modulated voice, distinguished in any company, he is proud to proclaim with Paul that he is "a citizen of no mean city," and no mean State. And, reciprocally, this man who gives so freely to the building of Texas is widely known and hailed as "no mean citizen" himself. Personally, he designed the slogan of his Texas Power and Light Company, "Providing for the Texas of Today: Planning for the Texas of Tomorrow."

Appropriate it is to end this sketch with a poem, the sentiment of which so appeals to Mr. Carpenter that he has requested its use in many of his organization's pieces of literature. It is called "The Builder," and it was written by F. Sherman.

An old man, going a lone highway
Came at the evening cold and gray
To a chasm vast and deep and wide,
Through which was flowing a sullen tide.
The old man crossed in the twilight dim,
The sullen stream had no fear for him;
But he turned when safe on the other side
And built a bridge to span the tide.

"Old man," said a fellow pilgrim near,
"You are wasting your strength with building here;
Your journey will end with the ending day,
You never again will pass this way;
You've crossed the chasm deep and wide,
Why build you this bridge at eventide?"

The builder lifted his old gray head:
"Good friend, in the path I've come," he said,
"There followeth after me today
A youth whose feet must pass this way.
This chasm, that has been as naught to me,
To that fair-haired youth may a pitfall be;
He, too, must cross in the twilight dim—
Good friend, I'm building this bridge for him."

Coal Resources of Oklahoma.

The characteristics of numerous representative Oklahoma coals are discussed in a report by the Bureau of Mines. It is one of a series devoted to the coals of the different States. Previously published papers dealt with the coals of Iowa, Kentucky, Ohio, Utah, Alabama, Pennsylvania, Virginia, Arkansas, Indiana, Missouri and Tennessee.

The coal fields of Oklahoma are in the east-central and northeastern part of the State, and the oldest area in point of development is in the east-central part in Pittsburgh, Latimer, Le Flore and Haskell counties.

The area in Oklahoma underlain by coal measures is about 20,000 square miles; of this, 12,000 square miles is actually underlain with coal. There are seven beds of economic importance and a number of beds too thin to be valuable under present conditions of production. The workable beds range in thickness from two to six feet and in a few localities from seven to eight feet. In the major part of the coal fields the average thickness of the beds worked is about four feet.

From 1800 to the end of 1926 Oklahoma has produced approximately 95,000,000 short tons of coal; its average rank has been fifteenth or sixteenth among the coal-producing States.

Coal in Oklahoma is obtained by stripping and by under-

ground mining. About half the mines are opened by shafts and half by slopes. The larger mines use the double-entry room-and-pillar system, but many small slope mines use the single-entry system. In the northeastern part of the State nearly all the coal is produced by stripping and steam shovels mainly used to remove the overburden. It is then taken out by "pinning" and loaded by hand either into wagons or cars to be hauled to the railroad shipping point. In some localities the stripping is by teams, and in one place it is done by means of a drag operated by a steam winch. The larger part of the production is used in Oklahoma and the adjoining States, chiefly for manufacturing purposes and as domestic fuel. However, the railroads use a large amount of the total produced.

Copies of Bureau of Mines Technical Paper 411, "Analyses of Oklahoma Coals," may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., price 10 cents.

10-Story Building Planned for Ensley, Ala.

Ensley, Ala.—Erskine Ramsay and Carr McCormack, both of Birmingham, plan to erect a 10-story office building here to be known as the Ramsay Building. The lower floor will be devoted to commercial purposes.

AUTOMOBILE TOURISTS MAY SPEND \$3,500,000,000 THIS YEAR.

Improved Roads Stimulate Travel—Need for Greater Mileage of Highways Emphasized.

By E. E. DUFFY.

Nomadic Americans, millions of them, will spin over the highways and byways this summer under the classification of "automobile tourists," and before the summer is over this touring horde will doubtless have spent \$3,500,000,000.

The volume of travel to national parks and monuments, forest preserves, national forests and to Canada definitely proves that road building is no longer chiefly a local problem but a State and national. Government records show that park visitors are rapidly increasing. Four California parks registered a gain of 52 per cent in attendance last year. Canada reports that 11,000,000 Yankees visited the various provinces in 1927, and incidentally, spent \$100,000,000 in doing it.

Possessed of a motor car the motorist's only handicap is that of poor roads, of which there is still an all too plentiful supply. The tremendous tourist travel that now exists is due to the roads that have been improved. Further road betterment will place the great outdoors still closer to the city. The worker with but two short weeks vacation may be enabled to visit his aunt 2,000 miles away with comfort.

There are 3,000,000 miles of roads in the United States, but not all of them need be paved, for a considerable mileage is infrequently traveled. Of this mileage but 518,000 miles are attended to by road workers. Only 69,000 miles may be called really first class roads. It is plain, then, that a great deal still remains to be done. This is not discounting the accomplishments to date, for the progress of the last quarter century, during the automobile's lifetime, has been noteworthy.

Since this is now a nation of people whose education is largely received through contacts with others and through observation of how others live and do things, road building assumes a greater importance than ever before. State road programs should be speeded up so that more low cost roads may be placed in service for the use of those living today. Where circumstances demand, local communities such as counties, should cooperate with the state as closely as possible so that the greatest mileage of first class highways can be obtained.

Road building is second to education in total expenditures. This is proper, for nothing is of greater importance than education and roads themselves are of great importance in education.

\$461,450 Low Bids on Fort Benning Work.

Fort Benning, Ga.—A tabulation of bids by the Constructing Quartermaster here discloses that Murch Brothers Construction Company of St. Louis, Mo., has submitted the low bid, at \$323,000, for building two units of Cuartel barracks, 3 stories, of reinforced concrete, with built-up roof and concrete floors, while the Atlanta office of the Palmer-Spivey Construction Company of Charlotte and Augusta, submitted the low bid at \$138,450, for constructing two reinforced concrete hospital additions. Contracts have been awarded to the two firms indicated.

Houston Oil Company May Increase Stock.

Houston, Tex.—Stockholders of the Houston Oil Company will vote May 10 on a proposition to increase the capital stock of the company by an amount not exceeding 60,000 shares. The new stock will provide for conversion of 5½ per cent

debentures, the authorized issue of which will be \$10,000,000, with only \$8,000,000 to be presently issued. Proceeds from the sale of the debentures will be used to retire \$6,833,000 6½ per cent notes to reimburse the treasury for advances to the Houston Pipe Line Company, a subsidiary, and to provide for other corporate purposes.

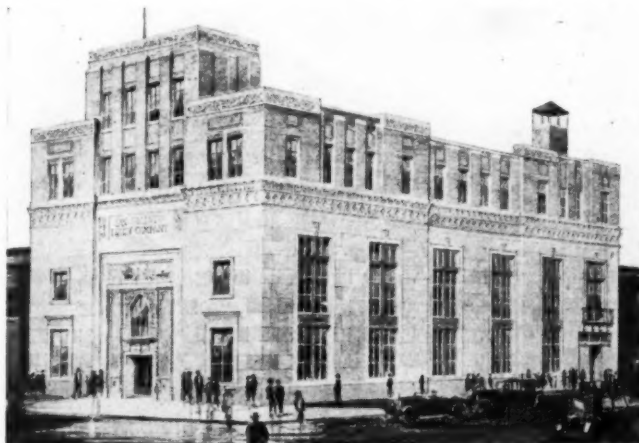
Orange City, Fla., Wants Manufactures.

Throughout Florida there is a growing interest in the establishment of industrial plants. It is being realized more and more that the advantages of that State for manufactures of many kinds are so great that the people of Florida must turn their attention to industrial activities.

Among the towns which are seeking to bring about industrial development is Orange City, a comparatively small but progressive community. The Orange City Bank and other business interests are taking an active part in this movement, and a letter from that city to the MANUFACTURERS RECORD states that ground in and around Orange City can be had at reasonable rates and terms; that building, either for factories or workmen's homes, is not expensive, and that taxes are low and facilities for transportation are good, either for the assembling of raw material or for the distribution of the manufactured product. Orange City has the advantage of two railroads and nearby is a natural waterway, the St. Johns River. The Orange City Bank invites correspondence from those interested in the establishment of enterprises in that section.

\$350,000 Trust Company Building for Houston.

Construction is progressing on the first section of a new building at Houston, Texas, for the San Jacinto Trust Company. The building has been designed for 22 stories, although the portion now being erected will consist of basement, first floor, two mezzanines and one office floor. This section will cost about \$350,000, including \$50,000 for furnishings and equipment. Joseph W. Northrop, Jr., of Houston is the archi-



UNDER CONSTRUCTION FOR SAN JACINTO TRUST COMPANY.

tect, and A. C. Bossom of New York, consulting architect. Don Hall of Houston is the general contractor.

The building will be of reinforced concrete, brick, steel and stone, 60 by 127 feet, with pile and reinforced concrete foundation, marble, terrazzo and linoleum floors and tar and gravel roof. The following sub-contracts have been awarded:

Cages and equipment—Lane & Tweed, Kansas City, Mo.
Cast stone—Pyramid Stone Company, Houston.
Electric light and power equipment—Alan T. Cooke Company, Houston.
Elevators—Houston branch of Otis Elevator Company, New York.
Heating and plumbing—George J. Robischung, Houston.
Marble—Vermont Marble Company, Houston.
Structural steel—Petroleum Iron Works, Beaumont, Tex.
Terra cotta—Atlantic Terra Cotta Company, New York.
Vault and grilles—York Safe and Lock Company, York, Pa.

History Making in Cotton Manufacturing Industry.

ANNUAL MEETING OF NATIONAL ASSOCIATION OF COTTON MANUFACTURERS BRINGS OUT MANY FACTS OF INTEREST.

Providence, R. I., April 26.

Textile executives were urged to become merchants to sell their own goods and to make more widespread use of advertising as a means of solving their problems, in addresses by advertising experts at the convention of the National Association of Cotton Manufacturers in the Providence-Biltmore. The entire automobile industry, most of the packaged food-stuff manufacturers and co-operative growers of fruits were cited as examples of new industries which not only have undertaken the production of goods, but also have assumed the problem of selling them.

"Modern economic forces, including advertising, are annihilating privileges throughout business," declared F. Guy Davis of the American Newspaper Publishers Association. "This is a part of the democratic hope of our times. The future in the cottongoods field, as in any field, belongs to those who can sense the changing moods of the people and who can adapt their selling and advertising practices to meet the new opportunities which these changes develop." He continued:

"Newspaper advertising, the greatest modern selling power, can after careful study be given a more important place in the cotton goods field to the advantage of your industry. It can sell cotton goods as it sells nearly everything else. It seems to the Bureau of Advertising, American Publishers Association, that this might be undertaken in more than one different way: (1) Consideration might be given to the wisdom of advertising cotton or cotton goods institutionally, just as many other products have been pushed, like leather, sauerkraut, cranberries, salmon, coffee and cement; (2) every producer of cotton cloth might think of advertising on one or all of the following lines: Advertising for a trade-marked fabric, advertising a specialty made of this trade-marked fabric, advertising of various garments or products made by other manufacturers from the fabric made by the cotton goods manufacturer."

"Cotton mills must control and formulate merchandising policies which harmonize distribution with production," said President G. Edward Buxton, and "costs must be predicated on estimated sales and not on a mythical schedule of full operations which cannot be achieved."

An appeal to the manufacturers to stimulate interest in making comparisons of their respective costs, either directly or through the Cotton-Textile Institute, was made by Walker D. Hines, president of the Institute.

That the textile manufacturer, however reluctant, must become a merchant, was also the view of S. R. Latshaw, president of the Butterick Publishing Company, who said that the present market for cotton piecegoods at retail in the United States amounts to more than \$380,000,000 per annum and that with exceptions of two months, every month since December of 1925 has shown a decrease in the retail sale from the corresponding month of the previous year.

Manufacturer Is Not a Mill Man Only.

"The road to the solution of your problem does not lie in the study of statistics nor in concentration on problems of manufacturing," said Mr. Latshaw. "Historically, the textile manufacturer has considered himself primarily a mill man. He has concentrated on buying, weaving, dyeing, printing and finishing, and until 20 years ago, in the majority of cases, he delegated his selling. The new industries which have sprung up in the last few decades have not only undertaken the production of goods, but also have assumed the problem of selling them."

What the automobile industry thinks of advertising was

indicated by Mr. Davis, who said that Chevrolet's newspaper expenditures, including their dealers' advertising, ran in 1924 to \$1,650,000; 1925, to \$1,500,000; 1926, to \$3,122,000; 1927, to \$4,000,000, while Ford returned to the newspapers last fall with an expenditure of \$1,200,000 in newspaper advertising in one week and, according to Edsel Ford, shortly afterward booked orders for more than 700,000 cars as a result.

The name of John Thorp, the heretofore unknown, but greatest, of all American textile inventors, was taken from obscurity when a bronze memorial erected by the National Association of Cotton Manufacturers was unveiled at the Old Slater Mill, Pawtucket, the textile museum of the country. Cotton manufacturers representing 27 States assembled to pay tribute to the achievements of the man whose principle of spinning is now employed in more than 100,000,000 of the 160,000,000 cotton spindles of the world. Robert Amory, vice-president of the Cotton Textile Institute and a former president of the National Association, unveiled the tablet commemorating the centennial of the granting of the patent by the United States Government to John Thorp of Providence, R. I., "inventor of ring spinning."

John Thorp and Samuel Crompton.

"Notwithstanding John Thorp's great contribution to the industry, historical recognition of him is meagre and sometimes misleading," said C. H. Clark, editor of "The Textile World," and added:

"This is partially due to the fact that there is no one authoritative history of the development of cotton machinery in this or other countries. It was the celebration in Bolton, England, last June, of the centenary of the death of Samuel Crompton, inventor of mule spinning, that first impressed me with the lack of recognition of John Thorp and of the enormous benefits that have accrued to the textile industry of the world as the result of his inventive genius. For nearly a century, Crompton's invention had held a dominant position for cotton spinning, but during the last 50 years it was slowly but steadily superseded by the ring frame, particularly in this country.

"For the last quarter century, at least, the spinning system invented by Thorp has taken precedence of the mule for cotton manufacture throughout the world and for a much longer period in this country. Yet, Crompton, for an invention that is now of lesser importance to the industry, was adequately honored in history, whereas Thorp remained unknown, except for the United States Patent Office records, found by Naumburg. Crompton's birthplace, where he invented the mule and the factory building where he operated it successfully are all preserved. A statue of Samuel Crompton was dedicated in his native Bolton in 1862.

"John Thorp has left no evidence of having been distinguished by any quality except great mechanical skill and vision. He, like Crompton, died poor and possibly disheartened. Even if Thorp had been endowed with greater business ability, it is not at all certain that he would have been more successful in capitalizing his inventions, as there were at least five financial panics, of varying magnitude, during the inventive period from 1812 to 1848, each of which took heavy toll of cotton and other manufacturers in and near Providence. Those of 1815-1816, 1829 and 1837 were particularly disastrous. There is strong circumstantial evidence that financial difficulties frequently dashed the hopes of John Thorp and

may have been a contributing cause to his death in Providence, November 15, 1848."

Electricity in Cotton Mills, a Southern Mill Having Been the First in the World to Use Induction Motors.

The application of electricity to the textile industry and the fact that it was the first of the large industries to adopt electricity as a means of light and power was related in an address by Sidney B. Paine, the pioneer in the electrification of the industry.

More than two-thirds of the 3,000,000 horsepower required to operate the textile mills of the country is now furnished by motors, Mr. Paine said, and added that the reciprocating steam engine is no longer the reliance for furnishing power to operate new mills. This, he said, has been superseded by the steam turbine, which, separately or in connection with waterwheels, enables mills to receive energy generated hundreds of miles away. Manufacturers are no longer limited in their search for a suitable mill site adjacent to a water-power, but can locate a mill wherever the conditions are most suitable for manufacturing and for the shipment of products.

"Arc lamps were first used in a textile mill in this country by the Riverside Worsted Mills of Providence, in February, 1879," said Mr. Paine. "The Orange County Woolen Mills of Newbergh was the first textile mill to use incandescent lamps, installing a 60-light dynamo in 1881. A little later, Wamsutta Mills, New Bedford, installed incandescent lamps, and the Grinnell Mills, also in New Bedford, did likewise in October, 1882. The first induction motor ever used in a cotton mill anywhere in the world was installed in Columbia Mills, Columbia, S. C. The electric motors were installed in Columbia because the distance of the mill site from the river and the general situation led to the experiment. The success of the first attempt to operate a calico printing machine by motors, made at the Dunnell Print Works in Pawtucket, 1891, also was a contributing factor in the Columbia Mills installation. The Southern plant was also the one in which the first electric motor to be suspended from a ceiling was installed.

"I believe that Joseph Ott of Pawtucket was the first man to use an individual loom motor in this country. On a visit to Italy, in 1901, he purchased such a motor. America is far ahead of Europe today in this application, but the design of the motors differs very materially from those found in Europe."

Four Miami Beach Homes to Cost \$1,000,000.

Miami Beach, Fla.—Walter O. Briggs, president of the Briggs Manufacturing Company, and Charles Fisher of the Fisher Body Corporation, both of Detroit, have purchased a 600-foot frontage of ocean property for a reported consideration of \$350,000 and it is stated that two and possibly three fine homes will be erected. Roy Chapin, chairman of the board of the Hudson Motor Car Company, Detroit, is also understood to have purchased a 200-foot frontage through the Carl G. Fisher Properties, for the erection of a fine residence. The total cost of all these residences is estimated at more than \$1,000,000.

20-Story Building Let to Contract.

Charleston, W. Va.—The Kanawha National Bank has awarded contract to James Stewart & Company, Inc., New York, for erecting a 20-story building here, for which Alfred C. Bossom of New York, is the architect, and Charles A. Haviland, Charleston, associate architect. The structure will be of steel, concrete, granite, limestone, brick and terra cotta, with marble wainscoting and borders. It will have three entrances and four elevators. Space for stores will be provided on the ground floor.

Business Men to Discuss Important Business Topics.

Washington, April 30.—Current problems in banking and taxation will figure prominently in the discussion of a special finance session at the sixteenth annual meeting of the Chamber of Commerce of the United States, in Washington, May 7 to 11. John G. Lonsdale, president of the National Bank of Commerce, St. Louis, will preside, and the Federal Reserve system will be discussed by Roy A. Young, governor of the Federal Reserve Board, and "What Is Ahead In Taxation" will be outlined by Dr. Thomas S. Adams of Yale University. Also, attention will be given to state and local taxation.

More than a score of business subjects have been submitted, including such topics as agriculture, commercial arbitration, commercial aviation, the Federal Trade Commission, foreign trade, highways, immigration, maintenance of resale prices, merchant marine, railroad rates, street and highway traffic, taxation, trust legislation, waterpower and the world court. The greatest number of proposals presented for action have to do with the subject of an American merchant marine, on which line the New Orleans Board of Trade proposes a declaration to the effect that the services now operated by the Shipping Board should be continued and provision be made for replacement of present facilities through construction of modern vessels by the board. Similar proposals have been submitted by the Cincinnati Chamber of Commerce and the New Orleans Association of Commerce. The Portland, Ore., Chamber of Commerce favors an adequate merchant marine with adequate federal aid to place American ships on a basis to meet foreign competition, and the Philadelphia Board of Trade wishes Congress to encourage construction in American yards by providing a loan fund at low interest to enable American ships to compete with foreign ships through liberal allowance for carrying the mail.

Three separate proposals have to do with commercial aviation. The National Chamber's Western Division asks support of the policy of the Department of Commerce for the promotion of commercial aviation, as a policy giving the utmost encouragement to private initiative. The Chicago Association of Commerce proposes that all State legislatures enact a uniform law for the regulation of commercial aviation. Encouragement of commercial aviation, with special emphasis on construction and maintenance of municipal airports in all important centers, is advocated by the Portland Cement Association.

Two immigration proposals are submitted. The Chamber's Western Division urges that Congress take no action in placing immigration from countries in the Western Hemisphere upon a quota basis until there has been a comprehensive survey of all the factors involved, and the Chicago Association of Commerce favors maintenance of the national origins system and in opposition to proposals based on the number of foreign-born in the United States at a given time.

Trust legislation proposals are submitted by the National Association of Retail Grocers and the National Automobile Chamber of Commerce. The former feels that there should be an investigation of the operation and effects of the Anti-Trust laws, in their application to present-day business, to ascertain in what respect, if any, they should be amended. The latter advocates Federal legislation to permit such concerted action among importers of raw materials as is now possible among exporters.

The Bloomington, Ill., Association of Commerce, proposes that, in the event the McNary-Haugen bill should not be enacted, there should be support of legislation embodying the export debenture plan and providing for storage of crop surpluses, export credits, and limitation of acreage.

\$9,000,000 Highway Through the Everglades.

TAMIAMI TRAIL COMPLETED AS CULMINATION OF 12 YEARS EFFORT.

Tampa, Fla., April 30.—One of the great highways of the century—the \$9,000,000 Tamiami Trail—was opened last week with a celebration on Wednesday and Thursday in which communities of the east and west coasts of Florida participated. A motorcade of approximately 1000 automobiles left Tampa Wednesday morning for Miami, stopping overnight at Fort Myers and completing the trip to Miami the next day. The celebration marks the culmination of more than 12 years of planning and work, offset to a great extent by lack of funds, improper equipment, interruption by the World War, a hurricane and floods. With the opening of the highway the lower east and west coasts of the State are closely joined, and a trip that only 10 or so years ago required days to complete can now be completed in as many hours.

This road as the name implies extends from Tampa to Miami, but the construction of the road between Tampa and Bonita Springs, which is south of Fort Myers, has been previously completed and does not come exactly within the scope of the work on the Tamiami Trail. That part of the Trail which needed to be built before automobile traffic over it was possible was from Naples to Miami, which crosses the lower part of the Everglades. The length of the Trail from Tampa to Miami is 274 miles and from Fort Myers to Miami about 143 miles.

The Trail was first given official recognition by the State Road Department in 1924, engineers starting surveys and location work in October of that year, and in August, 1925, the first contract for 10 miles of highway in Dade County was signed. After that the department completed its survey all the way from Coral Gables to Naples. Some work had been done in Collier county by Barron G. Collier in the development of the county, previous to the time when the State Road Department took charge of constructing this piece of highway. However, no part of the road built by Collier county was completed nor was it more than a trail and it has been necessary for the department to bring this portion of the road up to standard width and specifications.

In the construction of the Trail three major obstacles were encountered which made the work very difficult to complete. The first and perhaps the greatest obstacle was the fact that the road was in the Florida Everglades which was for the most part an undeveloped and unexplored territory with no means of transportation for labor, supplies or material. A sensation was caused by the disappearance of a surveying party for a period of about two weeks in 1917. Another party which attempted to cross the Everglades from Fort Myers to Miami in 1923 spent 23 days in accomplishing their objective, and only 7 out of 10 cars that started finally got to Miami.

The next difficulty to be overcome was the nature of the soil which formed the top layer of the dirt. This was muck which has no value as a road building material and which ranged in depth from two to six feet. Below it is solid rock. This condition was found on over 61 miles of the Trail from Miami west. It was found necessary to strip the muck from the area of the road-bed and the additional width necessary for the borrow canal, blast the rock and throw it up into the road-bed sufficiently high so as to be above the high water in this low flat county subject to overflow from Lake Okeechobee to the north. It was necessary to provide drainage structures not only for the existing canal but in order to allow the overflow water to pass south of the road so the road would not act as a dam, impounding all the water to the north. When

the rock played out about 60 miles west of Miami, the overburden was sand which was very easy to dredge up into a suitable road-bed. The problem on this stretch was transporting sufficient rock material for surfacing.

The Trail has attracted widespread attention because of the large consumption of high grade dynamite in its construction. At its peak, a contractor on one of the four largest sections of this work reported the use of more than 40,000 pounds of 60 per cent straight nitro-glycerine dynamite per mile of road constructed. Prior to 1925 Florida stood seventeenth among the States as a consumer of dynamite, other than permissibles, but in January, 1927, when this road work was at its height, there were only two other States in the country that consumed more of the ordinary grades of dynamite than Florida. Power shovels, ditchers, excavators and dredges in wide variety were used. Specially designed air drills played an important part in the work. Many demands were made upon the ingenuity of the contracting engineers. For example, the work in Monroe county was so far distant from the centers of communication that it was necessary to install radio sending and receiving apparatus both in the field and at the home office in Miami, 45 miles apart. This was said to have been one of the first commercial sets to be used for such a purpose.

The Tamiami Trail has a standard width of 30 feet from shoulder to shoulder, and since all the material is rock the entire width is travelable. The following figures give an idea of the cost of the Trail:

Dade county, \$585,000; Monroe county, \$210,000; Chevelier Corporation, \$333,000; Collier county, \$1,100,000; Lee county, \$1,084,000; State Road Department up to December 31, 1927, had expended about \$3,570,000, making a total of \$6,883,000. What has been expended in 1928 by the State Road Department will run the cost of the Tamiami Trail proper to \$7,000,000, to say nothing of the Tampa to Fort Myers stretch.

The principal contractors on this project were: R. C. Huffman Construction Company, Miami; Alexander, Ramsey & Kerr, Inc., Everglades, Fla. and New York city; M. C. Winterburn, Inc., Jacksonville; H. E. Wolfe Construction Co., St. Augustine, Fla., and the State Road Department, which has maintained convict camps on sections of the road.

Barron G. Collier was chairman of the general celebration committee. Mayor Clinton Bolick of Fort Myers was executive secretary and Henry Ford and Thomas Edison, directors. Other members of the general committee included: Mayor D. B. Mackay of Tampa; Mayor M. U. Lathrup of Bradenton; E. P. Green of Bradenton, member of the State Road Department; John Ringling and George Webb of Sarasota; William Johnson of Punta Gorda; George E. Merrick of Coral Gables; Mayor E. G. Sewell of Miami; I. E. Schilling of Miami, member of the State Road Department; and Ora E. Chapin of Fort Myers. The celebration was conducted under the auspices of the Tamiami Trail Association.

Contract Awarded for \$1,000,000 Building.

Fort Worth, Tex.—Contract for the building to be erected at 600 West Tenth street here by the Fort Worth Properties Company, John T. Jones, president, has been awarded to the Hewitt Construction Company, Fort Worth, which is taking all sub-bids. The structure will cost \$1,000,000. Wyatt C. Hedrick, Inc., Fort Worth, is the architect.

Baltimore Plans \$1,000,000 Junior High School.

The Public Improvement Commission, Baltimore, has approved the purchase of an 11-acre tract of land on Barrington road near Garrison boulevard, Forest Park, as the site for a \$1,000,000 junior high school building to accommodate 2000.

Southern Interest in Uniform Aeronautic Law.

Of much importance to the South as the natural and potential center for aeronautics and the aeronautic industry is a Government abstract of a "uniform state law" on aeronautics, with incidental information that of 22 States without state aeronautical legislation 10 are in the South, while of 11 which have adopted a "uniform state law" of aeronautics two are Southern States. Indeed, Tennessee was the second State to enact such a law, approved February 16, 1923, being antedated by only North Dakota, February 5, 1923.

Interesting in the text of the uniform state law is a provision that "sovereignty in the space above the lands and waters of this State is declared to rest in the State, except where granted to and assumed by the United States pursuant to a constitutional grant from the people of this State." Furthermore, "the ownership of the space above the lands and waters of this State is declared to be vested in the several owners of the surface beneath, subject to the right of flight," which is explained at some length.

At the outset, the following definitions are presented: Aeronautics, the science and art pertaining to the flight of aircraft; Aviation, the art of operating heavier-than-air craft; Aerostation, the art of operating lighter-than-air craft. In the uniform law, "Aircraft" includes balloon, airplane, hydroplane and every other vehicle used for navigation through the air, the "aeronaut" being the aviator, pilot, balloonist or other person having any part in the operation of aircraft while in flight, and a "passenger" being any person riding in an aircraft, but having no part in its operation.

Early in the law appears a provision that aircraft flight over the land and waters of a State shall be lawful, unless at such low altitude as will interfere with the use of such property or so conducted as to be imminently dangerous to persons or property, and "the landing of an aircraft on the lands or water of another, without his consent, is unlawful, except in case of a forced landing." For damages caused by a forced landing, the owner or lessee of the aircraft or the aeronaut shall be liable under another section. Also, the aeronaut is liable to action for damages in case of any injuries to person or property caused by anything falling from an aircraft.

All crimes, torts and other wrongs committed shall be governed by the laws of the State over which an aeronaut may be flying when the alleged wrong is committed, and all contractual and other legal relations entered into by aeronauts or passengers while in flight over a State shall have the same effect as if entered into on the land or water of that State.

"Any aeronaut or passenger who, while in flight over a thickly inhabited area or over a public gathering within this State, shall engage in trick or acrobatic flying, or in any acrobatic feat, or shall, except while in landing or taking off, fly at such a low level as to endanger the persons on the surface beneath, or drop any object except loose water or loose sand ballast, shall be guilty of a misdemeanor and punishable by a fine of not more than \$500 or imprisonment for not more than one year, or both," reads the uniform law.

So far, it appears, state aeronautic legislation has been of two types: Regulatory laws providing for licensing of airmen and aircraft, air traffic rules, etc., and non-regulatory laws, such as the uniform state law, the purpose of which is to establish the legal status of air navigation in relation to general law. The Florida law became void under express provision that it would be in effect only until Federal legislation entered the field, and regulatory provisions of other state laws are superseded by the Federal Air Commerce law of 1926 in so far as they are inconsistent with it.

The Southern States which have adopted the uniform state law are Maryland and Tennessee, while no state aeronautical legislation has been enacted, says the Department of Commerce, by Alabama, Georgia, Mississippi, Missouri,

North Carolina, Oklahoma, South Carolina, Texas, Virginia and West Virginia.

Among the provisions of the present laws of Arkansas, Kentucky and Louisiana, the Department of Commerce mentions the following, among nearly a score:

Authority—Arkansas, State aircraft board of three members; Kentucky, five members.

Aircraft Registration and Inspection—Arkansas, annual.

Traffic Rules—Arkansas, board may prescribe.

Fees—Arkansas: Private plane, \$15; commercial plane, \$50; private pilot, \$10; commercial pilot, \$50; manufacturer or dealer, \$50 for three planes. Louisiana: Bond of \$15,000 for one airplane and \$1000 for each additional airplane, to cover injuries.

Normal Altitude—Arkansas, minimum over cities, 1000 feet; over thickly populated premises, 250 feet, except in fog or forced landing.

The uniform state law includes a penalty for hunting with aircraft.

Super-Power Plant for Panhandle-Plains Section of Texas Announced by Texas Utilities Company.

Plainview, Tex.—The construction of a super-power plant in the Panhandle-Plains section of Texas by the Texas Utilities Company, Plainview, has been announced by J. R. Scott, general manager. Definite plans for building the plant were recently outlined by I. R. Kelso of St. Louis, president of the company, in a communication to Mr. Scott, in which he states that the big steam-power project will be operated in connection with the present generating stations of the Texas Utilities Company and the New Mexico Utilities Company. Stations of the former are located at Plainview, Canyon, Lubbock and Clovis.

In the selection of a site for the new plant, the company's engineers will be controlled entirely by the load center, necessary water supply to economically operate steam turbines, fuel gas supply and economies to be effected by operating the new plant in connection with existing plants. The Texas Utilities Company serves 35 cities on the Plains of Texas, while the New Mexico Utilities Company furnishes power and light for Clovis, Portales and other points in eastern New Mexico. The Texas Utilities Company has also contracted with the Southwestern Public Service Company, with an office at Amarillo, Texas, to furnish stand-by or protected service for the municipal pumping system of Amarillo.

Booklet on Airplane Hangar Construction.

"Airplane Hangar Construction" is the title of a publication issued by the National Lumber Manufacturers Association, Washington, in order to provide detailed information on the establishment of airports. It summarizes important considerations governing airport establishment and the structural and service requirements for hangars. Working drawings, bills of materials and estimated costs are given for four types of hangars. The progress of aviation in the United States and suggestions for hangar location and construction are discussed in a general way; other related problems, such as doors, heating plants, fuel economy, roof trusses, roofing materials and drainage, are discussed in detail.

\$5,575,000 of Dallas Bonds Sold at 100.97.

Dallas, Tex.—On a joint bid of 100.97 for \$5,575,000 Dallas improvement bonds, George L. Simpson & Company, Inc., of Dallas, and Fred Emert & Company, Inc., of St. Louis, Mo., have been awarded the issue. The bonds will bear an interest rate of 4¼ per cent.

\$55,886,310 FOR RIVERS AND HARBORS.
\$48,096,510 for Fiscal Year Ending June 30,
1929—Allotments for Southern Work
Total \$28,582,650.

Appropriations aggregating \$55,886,310 for harbor and river improvements have been approved by the Secretary of War and of this amount a total of \$48,096,510 has been allotted for the fiscal year ending June 30, 1929, leaving a balance of \$7,789,800 as a reserve for future contingencies.

Allotments for Southern work reach a total of \$28,582,650 and involve a number of major items, including lock and dam construction on the Ohio River to cost \$4,200,000; improvement of the Mississippi River between the Ohio and Missouri rivers, \$2,875,000; and between the Missouri River and Minneapolis, \$4,350,000; the Intercoastal waterway in Louisiana, \$771,000, and in Texas, \$584,100; Sabine-Neches waterway in Texas, \$1,025,000; Missouri River from Kansas City to the mouth, \$3,000,000, and from Kansas City to Sioux City, \$600,000; Houston ship channel, \$510,000; Galveston channel, \$640,000; St. John's River in Florida, from Jacksonville to the ocean, \$400,000; Miami harbor, \$650,000; Savannah harbor, \$800,000; waterway from Delaware River to Chesapeake Bay in Delaware and Maryland, \$1,000,000; Norfolk harbor, \$340,000; channel to Newport News, \$357,000; intracoastal waterway from Beaufort to Cape Fear River in North Carolina, \$800,000; Baltimore harbor, \$155,000; Potomac River at Washington, \$100,000, and Mobile harbor, \$260,000. Other Southern work includes the following:

Pennsylvania and West Virginia: Monongahela River, \$375,000.

Delaware, Maryland and Virginia: Waterway from Chincoteague Bay to Delaware Bay, \$500.

Virginia: Occoquan Creek, \$1000; Rappahannock River, \$13,000; Mulberry Creek, \$2500; Urbanna Creek, \$8000; Mattaponi River, \$1000; Pamunkey River, \$800; James River, \$130,000; Appomattox River, \$91,000; Pagan River, \$2000; Nansemond River, \$2000; Blackwater River, \$3000; Meherrin River, \$3000; Roanoke River, \$3000.

Virginia and North Carolina: Inland waterway, Norfolk to Beaufort Inlet, \$537,500.

North Carolina: Scuppernon River, \$3000; Beaufort harbor, \$14,400; Beaufort inlet, \$26,400; Cape Fear River—at and below Wilmington, \$184,000—above Wilmington, \$9600; Pamlico and Tar rivers, \$25,600; Neuse River, \$51,800; Trent River, \$4200; Waterway from Core Sound to Beaufort harbor, \$6000; Shallotte River, \$12,000.

North Carolina and South Carolina: Waccamaw River, \$2000.

South Carolina: Charleston harbor, \$200,000; Great Pee-dee River, \$2500; waterway from Charleston to Winyah Bay, \$20,000; Santee River and Estherville-Minim Creek canal, \$4000; waterway from Charleston to Beaufort, \$7000.

South Carolina, Georgia and Florida: Waterway from Beaufort, S. C., to St. Johns River, \$50,000.

Georgia: Savannah River below Augusta, \$18,000; Altamaha, Oconee and Ocmulgee rivers, \$30,000; Brunswick harbor, \$75,000; Flint River, \$40,000.

Florida: Key West harbor, \$25,000; Charlotte harbor, \$60,000; Tampa harbor, \$180,000; Oklawaha River, \$40,000; Caloosahatchee River, \$25,000; Anclote River, \$38,300; Withlacoochee River, \$5000; Carrabelle bar and harbor, \$5500; Apalachicola Bay, \$16,000; St. Andrews Bay, \$30,000; Apalachicola River, the cut-off, Lee Slough and Lower Chipola River, \$6000; Upper Chipola River, from Marianna to its mouth, \$7000; channel from Apalachicola River to St. Andrews Bay, \$4000; narrows of Santa Rosa Sound, \$3500; removal of water hyacinth, \$6000.

Georgia and Alabama: Chattahoochee River, \$40,000.

Florida and Alabama: Choctawhatchee River, \$25,000; Escambia and Conecuh rivers, \$3500.

Alabama: Alabama River, \$100,000; Black Warrior, Warrior and Tombigbee rivers, \$30,000.

Mississippi: Pascagoula harbor, \$50,000; Gulfport harbor

and Ship Island pass, \$70,000; Biloxi harbor, \$6000; Big Sunflower River, \$10,500; Yazoo River, \$15,000.

Louisiana: Southwest pass, Mississippi River, \$365,000; Mississippi River between Baton Rouge and New Orleans, \$28,000; Bayou Bonfouca, \$16,500; Little Caillou Bayou, \$85,000; Bayou Vermilion, \$10,000; Tensas River and Bayou Macon, \$4000; Boeuf River, \$4000; Bayous D'Arbonne and Corney, \$2000; removing water hyacinth, \$25,000.

Texas: Galveston harbor, \$188,500; channel from Galveston harbor to Texas City, \$230,000; Port Bolivar channel, \$16,500; Freeport harbor, \$72,500; channel, Aransas Pass to Corpus Christi, \$300,000; Port Aransas, \$166,000.

Arkansas and Louisiana: Ouachita and Black rivers, \$58,500.

Arkansas: Red River below Fulton, \$50,000; White River, \$33,250; St. Francis and L'Anguille rivers and Blackfish bayou, \$8200.

Arkansas and Oklahoma: Arkansas River, \$35,000.

Arkansas and Missouri: Black River, \$18,750; Current River, \$3250.

Missouri: Osage River, \$15,000; Gasconade River, \$5000.

Mississippi River: Mill Creek and South Slough at Milan, Ill., \$67,000.

Missouri River: Sioux City to Fort Benton, \$30,000.

Tennessee River: Above Chattanooga, \$30,000; Chattanooga to Hales Bar Lock, \$20,000; Browns Island to Riverton, \$10,000; below Riverton, \$100,000.

Ohio River: Open channel work, \$390,000.

Texas County Is "Cow Conscious."

Waco, Tex., April 30—[Special.]—J. B. Snider, county agent for McLennan county, Texas, has coined a new term, "cow conscious," which he applies to central Texas, because within the past 12 months this section has awakened to the fact that dairying is a road that will lead it out of the mire of one-crop farming. This awakening is shown by the springing up of scores of cream-shipping stations in the past 12 months and an organized movement for milk-consuming plants, which has become the central feature of the Chamber of Commerce program.

More than 3000 cans of sour cream were shipped from Waco in the past year, where not a can was shipped the year before, and McGregor, a community of some 2500 people, has almost equaled Waco's record, while the crossroads stores are shipping dozens of cans weekly. In the past 60 days, 38 registered calves have been distributed to boys on long time credit, under arrangements financed by Waco and county banks, and this means of introducing blooded dairy stock is growing daily in popularity.

To help give the farmer an outlet for the fruits of his balanced farm program, the Chamber of Commerce is devoting a large part of its money and work toward a marketing bureau, designed to assure the producer a competitive market, to which the chief consuming and distributing interests shall have ready access to the product they desire, the producer to be constantly advised of world market conditions.

\$534,500 Contract for Atlanta Schools.

Atlanta, Ga.—General contract has been awarded Joe W. Stout & Company, Inc., Sanford, N. C., at \$534,500, for erecting the Edgewood avenue, Morningside and Whiteford avenue schools here and for additions to Haygood-State and Grant Park schools. G. Lloyd Preacher & Company, Inc., Atlanta, are the architects.

Architects for \$1,000,000 Houston City Hall.

Houston, Tex.—A citizens committee of which Judge Sam Streetman is chairman, has selected Alfred C. Finn, James Rusk Bailey and Hedrick & Gottlieb, Inc., all of Houston, to prepare plans and specifications and supervise construction of a \$1,000,000 city hall.

Piedmont & Northern Railway to Question Interstate Commerce Commission's Jurisdiction Over Electric Carriers.

[Special Correspondence Manufacturers Record.]

Charlotte, N. C., April 30.

Jurisdiction of the Interstate Commerce Commission over an electric interurban railway not operated as part of a steam system will be questioned in the Federal courts by the Piedmont & Northern Railway. The suit is to be filed as a result of the recent refusal of the commission to grant the company permission to build a connecting link between its North Carolina and South Carolina divisions from Spartanburg to Gastonia and to extend its lines from Charlotte to Winston-Salem. The company will also contend that the proposed extensions are part of an unfinished project and do not come under the construction clauses of the Transportation Act of 1920.

\$400,000 Church Structure Completed.

A new building erected at a cost of more than \$400,000 has recently been dedicated by the Polk Street Methodist Episcopal Church at Amarillo, Tex. The structure has been designed in two units, the church proper and an educational building which are connected across the front by a wide corridor. It is of Gothic architecture faced with dark gray brick trimmed in stone colored terra cotta and Carthage stone and having an English type roof of green tile. The educational unit houses all class rooms and departments for the Sunday school, while the main floor of the church pro-



NEW METHODIST CHURCH, AMARILLO, TEXAS.

vides space for the foyer and auditorium. Provision has been made in the basement for a large banquet room with a specially designed acoustical ceiling and adjoining this a kitchen has been installed with all modern equipment. The R. H. Hunt Company of Chattanooga and Dallas are the architects and the Christy-Dolph Construction Company of Dallas, general contractors. Among the subcontracts are the following:

Bedford-Carthage stone—Herget Cut Stone Company, Dallas.
Common brick—Ferris Brick Company, Dallas.
Dentec stone and terra cotta—Denver branch of Northwestern Terra Cotta Company, Chicago.
Face brick—Elgin-Butler Brick Company, Elgin, Tex.
Lumber—Amarillo Lumber Company, Amarillo, Tex.
Metal lath—Dallas branch of Truscon Steel Company, Youngstown, Ohio.
Metal partitions—Gilbert Manufacturing Company, Inc., Dallas.
Millwork—Lecoutour Brothers Stair Company, St. Louis, Mo.
Ornamental iron—Weaver Ornamental Works, Dallas.
Plaster—Texas Cement Plaster Company, Oklahoma City.
Plastering—George W. Blue, Fort Worth, Tex.
Portland Cement—Texas Portland Cement Company, Dallas.
Reinforcing steel—Dallas branch of Concrete Engineering Company, Omaha, Neb.
Rubber floors—Dallas branch of United States Rubber Company, New York.

Newspapers Plan a Demonstration Farm.

As a step toward the stimulation of agriculture in the great manufacturing section around Johnson City, Tenn., Appalachian Publishers, Inc., publishers of the Johnson City Chronicle and Johnson City Staff-News, have purchased a large farm about four miles from the city and propose to develop it as a demonstration farm for the instruction of farmers in the area. Guy L. Smith, president of the concern, is buying blooded stock and proposes to have nothing but purebred stock on it.

"It is Mr. Smith's purpose," Carroll E. King, vice-president of the company writes, "to make this a demonstration farm whereon he will show the farmers of this territory how, by proper methods of soil treatment and fertilization, the soil not only can be held up, but also can be increased, instead of being allowed to wear out. This already has been proved to be valuable as a poultry raising country and for dairying purposes, and Mr. Smith proposes to show that the maximum in these lines has not been reached and to prove that this territory is a good livestock region."

The county agent and the agricultural extension department of the University of Tennessee plan to help permanently in this work and an expert will be enlisted to visit and advise farmers throughout the territory. The Saturday morning edition of the Chronicle is known as the "farm addition," and the enterprise will be called the Johnson City Chronicle Experimental Farm.

\$2,500,000 Office Building Planned for Memphis.

Memphis, Tenn.—Wyatt C. Hedrick, architect of Houston and Fort Worth, Tex., has secured a lease on property at Madison avenue and Third street, this city, on which he plans to erect a 26-story office building to cost about \$2,500,000. The structure will have 13 main floors and a tower of 13 stories with two set-backs, covering a ground area of 22,500 square feet. It will be of steel frame construction with brick curtain walls and stone trim, and will be equipped with 8 elevators. A 3-story garage will probably be erected adjoining it. The building company will be known as the Third and Madison Company, of which Mr. Hedrick will be president, and general contract is expected to be awarded within 30 days.

To Advance Dairying Industry on Mississippi Gulf Coast.

For the purpose of advancing the dairying industry on the Mississippi gulf coast, W. Caleb Smith, Gulfport, announces that his company plans to clear, fence and improve tracts of land, selling them to settlers on an income-producing basis, and for settlers he is drawing from Wisconsin, Minnesota, Illinois, Iowa and other states. Co-operation with farmers to assist them in purchasing pecan and fruit trees, fencing and other commodities at first cost is a part of the Smith company's program, which is expected to attract a large number of settlers experienced in dairying.

Tributary Ship Channel Planned.

Plans for cutting a tributary ship channel through San Jacinto bay and for spending more than \$1,000,000 for port facilities on it have been announced by R. S. Sterling, chairman of the Port Commission of Houston, Tex. Owners of extensive property at La Porte are reported as planning to dig a channel 30 feet deep and 200 feet wide through the bay along the La Porte frontage. The new waterway would connect with the Houston ship channel near Morgan's cut and a turning basin would be dug at its western terminus.

IRON, STEEL AND METAL MARKET

PRODUCTION AND SHIPMENT OF STEEL.

Increased Shipments and Profits by Steel Corporation.

Pittsburgh, April 30—[Special.]—Production and shipments of steel in April were several per cent above those in any preceding April. They approximated the March rate, which was substantially equal to the best March. The difference is that April did not bring the decrease that has commonly occurred. Such a decrease is now about to begin, some signs having already appeared. Quite possibly and indeed probably the divergence has been due to the price situation, mills having demanded higher prices in several products, including bars, shapes, plates and wire products, for the second quarter, while April shipments represented business originally booked for first quarter.

Recently the Chicago mills were booking more tonnage than they were shipping but now their bookings are reported at only about half the shipments, although mill operations in the district continue at about 95 per cent. In the Pittsburgh and Youngstown districts there has been a slight decrease in steel production in the week.

Last week was rather a light one in fabricated structural steel, bookings of only 26,400 tons being reported. The year to date is however well ahead of any previous year. Railroad buying has been of moderate proportions right along and there has been a change in the character of the expenditures, whereby they represent less steel tonnage than formerly, little being spent on locomotives and freight cars.

Automobile production has been somewhat heavier in April than in March. The official reports shows that production of cars and trucks in the United States and Canada in the first three months totaled 998,723, against 995,414 in the first quarter of last year and 1,164,885 in the first quarter of 1926. Ford production is increasing while production of other cars is about to decrease and the two are expected to come close to balancing.

Agricultural implement works are running at a very high rate, probably record high, and the usual summer lull is not expected to be pronounced.

Finished steel prices show no material change except that sheets are softer. Black sheets have lately been at 2.75c to 2.90c, with 2.90c almost nominal, while now there are more sales than formerly at 2.75c. Blue annealed sheets have weakened lately and are now quotable \$2 a ton lower, at 2.00c, with 2.10c obtained in some areas, while the \$2 a ton extra on widths over 40 inches is often ignored.

Bars, shapes and plates were at 1.75c or less for the December quarter. Contracts were made at 1.80c for first quarter and at 1.85c for second quarter while mills assert they will insist on 1.90c for third quarter. First quarter tonnage is now substantially all specified.

The American Iron and Steel Institute has issued its statement of capacity as of December 31, 1927, showing steel ingot capacity at 59,435,766 gross tons per annum. There was 3.9 per cent increase during 1926 and 2.5 per cent increase during 1927. Last year's production was about 43,700,000 tons, and while this was a trifle above 1923 production the tonnage relative to capacity was 10 per cent less than in 1923. Capacity grows slightly by construction of new open-hearth furnaces, but also by minor improvements and by the mills getting additional practice. The capacity gain, which in a sense might be considered involuntary, seems to have exceeded the increase in demand in the past few years.

Steel Corporation earnings in the March quarter were \$40,934,032, or 31 per cent increase over the December quarter, while the increase in shipments has been estimated at 30 per

cent. Better prices were thus an insignificant influence, but further declines were avoided and mills are still trying to work prices up, not by announcing further advances but by endeavoring to secure prices, for on account of contracting increases in realized prices always lag behind advances in the open market.

INCREASED ACTIVITY IN THE METAL MARKET.

Copper More Active—World Overproduction of Tin.

New York, April 30—[Special.]—A week ago the sentiment in the metals had improved. During the past week buying has been better and, if the usual cycle is continued unbrokenly, this week prices will be better. Copper was the most active of the metals and the price had firmed absolutely to 14¼c per pound, delivered in the Connecticut Valley. Business in zinc was also better as a result of better developments uncovered the preceding week, chief of which was the completion of the European zinc cartel, which it is expected will remedy the world overproduction.

The lead market was fairly steady with normal tonnages being bought and sold. Tin sales were about 300 tons daily as during the past two or three weeks with price levels essentially unchanged. Silver reached 57¼c per pound one day last week, establishing a new high for 1928. Antimony was quiet and slightly easier at 10c per pound. Quicksilver is unchanged at \$123 per flask of 75 pounds and platinum is unchanged.

Consumption of some of the major non-ferrous metals is now at their peak for the year. Such is the case with lead in the making of automobile batteries and in the form of lead oxide for pigments, what with spring painting in full swing. Zinc is being used in peak proportions, particularly by the steel industry which is working at 85 per cent of capacity and coating certain forms of steel with it. Tin is being consumed rapidly in the form of bearings for motor cars and in tin plate for the coming canning season. This being the height of the building season, copper is being used on a large scale for brass plumbing, screens, water spouts, etc.

According to reports from the mining centers present low selling prices of the metals is keeping in check the putting into operation of properties now idle. This is a good thing for the industry, its worst fault at present being overproduction.

The overproduction in zinc on a world scale is the worst in years. Production of lead and surplus stocks have been increasing yet the situation is favorable by comparison with a year ago. A leading authority on tin has made a prediction that the average selling price of tin over the next two years will be 45c per pound as against about 52c today and as against 72c over a year ago. Much money has been spent in new tin mining equipment and hence tin production is the greatest in several years. There is an adequate supply of tin in the ground for at least ten years more without developing a single new property. Meantime substitutes for tin may be developed, the most feasible appearing to be a lacquer for coating cans in which food is preserved.

Copper became more active as only a few more days were left of this month to get under contract for May delivery. Selling for export was again heavier than for domestic consumption. On Tuesday 5000 tons were sold for export and on Wednesday and Thursday about 2000 tons each were thus sold. Official prices were the same at 14¼c for domestic delivery and 14½c c. i. f. European ports for shipment abroad.

Practically all April metal has been sold out and producers have been straining to make deliveries on old contracts on time. In some cases the metal was shipped from refineries before completely cooled from the furnaces. Profits of fourteen leading copper companies in 1927 were 7 per cent lower than for 1926. However the showing for this year promises to be better. Last year prices were usually between 12½c and 13½c per pound whereas all this year to date they have been 14½c to 14¾c, the prospects for the next few months being that they will not go materially lower. Just now the tendency in copper is towards still higher prices.

Sales of prime western slab zinc were made at 5.80c to 5.82½c per pound, East St. Louis, which is an improvement of \$1 per ton during the past ten days. There is a movement on foot to get the Far Western slab zinc producers to co-operate better with those in the tri-State district to guard against overproduction. A less favorable development of the past week was the starting up of some mines in the tri-State district which had been idle from one to three months. Production in that district is again about 10,000 tons weekly instead of 8000 tons which prevailed at the peak of curtailment.

A few concessions appeared in the pig lead market, second hands in the Middle West having sold in a limited way at 5.95c per pound, whereas the recognized price is 6c. The American Smelting & Refining Co. has held its official quotation to 6.10c, New York. Consumers have begun to buy for June delivery.

Tin was selling at slightly under 52c per pound late in the week. Sentiment is irregular and there is much confusion among traders as to what position to take on the market. Usually they follow the leaders with no definite opinion individually. The immediate statistical position is sound and shipments to this country in April have probably been the lightest in several months.

BIRMINGHAM IRON AND KINDRED ACTIVITIES.

Revival of Demand From Louisiana for Sugar Machinery—New Furnaces to Be Built.

Birmingham, Ala., April 30—[Special.]—Consumers of pig iron are not carrying any great amount of iron on their yards though the melt with some is very steady. Deliveries against contracts have been good for several weeks although the buying is in small lots and furnace interests are unable to determine the strength of the market.

Blast furnace operation is at a steady pace, eight iron-makers turning out foundry, seven basic and two special brand iron, ferro-manganese and carbonized. Three furnaces are under repairs in this district. Another furnace has just been dismantled and on its site another iron maker will be built. Two new blast furnaces shortly will have the torch applied. Plans are for the blast furnace at Gadsden (Gulf States Steel Company), to be dismantled and be rebuilt on a larger scale.

Pig iron quotations continue on the \$16 per ton base, No. 2 foundry. No indication is to be observed as to a change in the near future. Sales in small lots are for delivery during the second quarter and a considerable proportion of the probable make of May has been covered, deliveries to extend over into June. No word is heard as to selling into the third quarter and the prospects are that the books of the furnace interests will be opened as quietly for the new period as they were on the second quarter, nothing at all being intimated until a number of sales had been consummated.

There is still considerable surplus foundry iron on furnace yards in this district. Compilation of statistics as to the shipments of iron will show that April movement was equal to that of March. One of the larger foundry iron producers

of the district announced that March shipments were the largest of any month in more than a year. There is no inclination to make predictions. Cast iron pipe makers are giving indications that there will be steadier production. Machine shops and foundries have also intimated that there will be need for a little more iron while soil pipe making is slightly better, though the market on the whole is termed sluggish.

The Birmingham Machine & Foundry Co., George M. Morrow, Jr., president, has taken contracts for three cane crushing machines for sugar companies of Louisiana. This is part of the plan for rehabilitation of the sugar industry in that State, the new cane requiring heavier machinery. Birmingham shops have been bidding on other work in the industry but inasmuch as it will take a considerable period for the rehabilitation, but few contracts are let at a time.

American Radiator Company has opened a sales office in Birmingham, conducted under the Southern agency at Atlanta. The plant of the company in Birmingham for twelve months up to March 1 melted \$575,000 worth of pig iron, besides a large quantity of scrap, etc.

The steel market is fairly good with demand holding up fairly well. Rail making is not as active as it has been. Car orders are being worked on now. Central of Georgia Railroad to receive five cars a day of a 550 car order. Atlantic Coast Line has placed a contract with the Tennessee Coal, Iron & Railroad Company for 200 phosphate cars. Southern Pacific has an order here for 500 cars also.

Birmingham is bidding on 15 steel hulls for barges to be used in New Jersey. Additional oil tank orders have been received. The structural steel demand is slow and fabricating shops report dullness. A little local work is being done. The Otis Elevator Company has sold 15 elevators for sky-scrapers and other buildings here at a cost of \$182,000. The Birmingham Pressed Steel Co. shipped a carload of toys to New York and has orders for three more solid cars to go to the Carolinas and the East. This shop is rebuilding a portion recently destroyed by fire, the steel frame being fabricated by the Southern Steel Company.

The coke market is unchanged, by-product works doing well and foundry coke holding at \$5 base. Scrap iron and steel market is fair, heavy melting steel on \$10.75 per ton base. Plenty of old material is to be had.

Quotations for pig iron and iron and steel scrap follow:

PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnace, \$16.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.50; iron of 2.75 to 3.25 per cent silicon, \$17.00; iron of 3.25 to 3.75 per cent silicon, \$17.50; charcoal iron, f. o. b. furnace, \$29.00.

OLD MATERIAL.

Old steel axles	\$16.00 to \$17.00
Old iron axles	16.00 to 17.00
Old steel rails	11.50 to 12.00
Heavy melting steel.....	10.75 to 11.00
No. 1 cast.....	14.00 to 14.50
Stove plate.....	13.00 to 14.00
No. 1 railroad wrought.....	11.50 to 12.00
Old car wheels	14.50 to 15.00
Old tramcar wheels	14.50 to 15.50
Machine-shop turnings	8.00 to 9.00
Cast-iron borings	8.00 to 9.00
Cast-iron borings (chem.).....	13.00 to 13.50

Industrial Gas Course Scheduled.

The seventh annual industrial gas course, sponsored by the New England Gas Association and the American Gas Association, will be held at the Massachusetts Institute of Technology, Cambridge, Mass., June 18 to 28. The major subject to be considered is metallurgy, and a comprehensive program has been arranged. While attempting to meet a growing demand for greater specialization, the schedule this year will emphasize particularly the application of gas to metallurgical problems. Specific problems will be presented for solution and a report of all data available will be made by those attending. Notes and data will be distributed and equipment in the Institute's gas laboratory will be available for tests, etc.

GOOD ROADS AND STREETS

\$258,966,851 From Gasoline Tax in 1927, Practically All Allotted for Road Work.

Taxation of gasoline in 1927 produced a total revenue of \$258,966,851, according to the Bureau of Public Roads. Of this, \$182,095,503 was available for the construction and maintenance of State highways under the supervision of the State highway departments and \$55,440,161 was apportioned to counties for local road purposes. All but 4 per cent of the net receipts were allotted for road purposes, including the payment of interest and retirement charges on highway bonds. The yield of the tax constituted an important contribution to the total highway revenue.

The tax was collected in every State but Massachusetts and New York, the rate ranging from two to five cents per gallon. More than \$105,000,000 was collected in the Southern States.

The returns indicate an increase in gasoline consumption over 1926 in all but two States. Including estimates for the two States in which the tax was not imposed, it is indicated that 10,596,000,000 gallons of gasoline were used by motor vehicles during the year, an increase of 8.2 per cent over 1926. The average consumption per motor vehicle was 458 gallons.

GASOLINE TAX COLLECTIONS, 1927.

States	Tax rate December 31, 1927, cents per gallon	Net receipts from gasoline tax
Alabama	4	\$5,908,986
Arkansas	5	4,358,737
District of Columbia	2	1,148,794
Florida	5	10,980,586
Georgia	4	7,066,109
Kentucky	5	5,913,396
Louisiana	2	3,034,056
Maryland	4	4,169,397
Mississippi	4	4,890,686
Missouri	2	6,330,983
North Carolina	4	8,786,682
Oklahoma	3	7,197,956
South Carolina	5	5,080,385
Tennessee	3	4,476,180
Texas	3	15,650,841
Virginia	*4½	7,139,707
West Virginia	3½	3,794,068
Total South	...	\$105,907,549
Arizona	4	\$1,388,830
California	3	22,467,083
Colorado	3	3,139,594
Connecticut	2	3,054,906
Delaware	3	662,159
Idaho	4	1,571,749
Illinois	†2	6,199,509
Indiana	3	10,133,568
Iowa	3	7,248,214
Kansas	2	4,594,650
Maine	4	2,288,933
Massachusetts
Michigan	3	14,260,564
Minnesota	2	5,174,880
Montana	3	1,436,398
Nebraska	2	3,664,919
Nevada	4	471,624
New Hampshire	‡3	1,268,907
New Jersey	2	4,082,860
New Mexico	5	1,415,690
New York
North Dakota	2	1,275,565
Ohio	3	19,910,481
Oregon	3	3,643,191
Pennsylvania	3	17,296,333
Rhode Island	2	915,959
South Dakota	4	2,393,592
Utah	3½	1,461,261
Vermont	3	905,244
Washington	2	3,821,438
Wisconsin	2	6,027,114
Wyoming	3	756,049
Total	...	\$258,838,813

†Tax in effect 5 months in 1927 and discontinued February 25, 1928.

‡Gasoline tax became 4 cents on January 1, 1928.

*Increased to 5 cents on March 19, 1928.

Contracts were recently awarded by the Texas State Highway Commission for five road projects and one bridge project, the former covering a total of approximately 68 miles.

Annual Meeting and Installation of Officers of Road Builders Association.

The regular annual meeting of the American Road Builders Association will be held on May 11 at the Willard Hotel, Washington. Officers and directors elected at the January convention in Cleveland will be installed and reports of the Board of Directors and the officers whose terms expire will be received. The officers and directors who take office at the coming meeting are:

President—R. Keith Compton, director, Department of Public Works, Richmond, Va.; vice presidents—W. A. Van Duzer, assistant chief engineer, Pennsylvania Department of Highways, Harrisburg; D. B. Dimick, president, American Casting Co., Birmingham, Ala.; S. F. Beatty, president, The Austin-Western Road Machinery Co., Chicago; Samuel Hill, Washington State Good Roads Association, Seattle; treasurer—James H. MacDonald, New Haven, Conn.; directors—H. K. Bishop, chief, division of construction, United States Bureau of Public Roads, Washington; W. S. Godwin, Baltimore; Paul L. Griffiths, American Tar Products Co., Pittsburgh; W. R. Neel, State Highway Engineer, East Point, Ga.; J. E. Pennybacker, general manager, Asphalt Association, New York; T. J. Wasser, supervising engineer, Hudson County Board of Chosen Freeholders, Jersey City; S. M. Williams, manager, engineering and construction division, Associated General Contractors of America, Washington.

South Carolina Counties Sell \$1,800,000 Road Bonds.

Columbia, S. C.—An issue of \$1,800,000 4½ per cent bonds, the joint obligation of Richland, Lexington and Saluda counties, South Carolina, has been sold by the Capital Highway Commission, B. W. Crouch, chairman, Saluda, S. C., to the W. R. Compton Company, St. Louis; A. B. Leach & Company, Inc., and Howe, Snow & Company, Inc., both of New York; the Detroit Company, Detroit, Mich.; Taylor, Ewart & Company, Chicago; Curtis & Sanger, Boston, Mass., and the Peoples National Bank of Rock Hill, S. C. The purchase price was 101.029.

Kentucky Asks Bids on 250 Miles of Roads— Lets Contracts for 80.

Frankfort, Ky.—The State Highway Commission will receive bids until May 31 for the construction of 24 road projects covering a total of more than 250 miles. The work will include 215 miles of surfacing embraced in 19 projects, 29.3 miles of grade and drainage construction covered in four projects and 9.4 miles of grade, drainage and surfacing. The commission has recently awarded contracts for 80 miles of roads at a cost of more than \$1,000,000 on projects which had been held in abeyance.

\$2,674,000 for Oklahoma City Sewers.

Oklahoma City plans to expend \$2,424,000 for storm water sewers and \$250,000 for sanitary main sewer extensions, according to B. M. Hart, city engineer, the work to be divided into 15 or 20 contract jobs and bids to be called for at intervals during the next twelve months. Construction will start within 30 days.

Oklahoma to Let \$1,000,000 Road Contracts.

Oklahoma City, Okla.—The State Highway Commission will award contracts on May 15 for approximately \$1,000,000 worth of road improvements. This will be the second spring letting of the commission.

TEXTILE

Lincoln Mills Improvements About Completed.

The Lincoln Mills of Alabama, with offices in Boston, Mass., and mills at Huntsville, Ala., have completed all mill buildings at Huntsville which they plan for the present and have purchased and installed practically all machinery required. In order to care for employes, the company plans to erect during the summer approximately 150 four and six-room houses.

The company operates a small finishing works in Kenyon, R. I., for waterproofing and striping a part of the product of the Lincoln Mills and eventually this plant will be moved South, but date of removal is indefinite.

Texas Invites New England Textile Manufacturers.

San Antonio, Tex.—G. M. Knebel, secretary of the State Industrial Committee, announces that a committee of five Texans is now in New England making up a party of textile manufacturers to visit Texas with a view to establishing cotton mills in the State. Among mill owners expected to make the trip are worsted manufacturers, users of wool and mohair as well as cotton. The tour will be conducted in May or June.

Action on Brandon Mill Merger Postponed.

Greenville, S. C.—Plans for the merger of the two Brandon mills and the Poinsett Mill here, the Woodruff Cotton Mill at Woodruff, S. C., and the Renfrew Mills at Travelers Rest, S. C., which were to have been consummated at a meeting of stockholders April 17, will not be finally decided until May 23. The consolidated company will be known as the Brandon Corporation and will be capitalized at \$9,500,000.

Clanton Plant of Alabama Mill Company.

Clanton, Ala.—The new mill to be erected here by the Alabama Mill Company, Birmingham, and for which the Batson-Cook Company of West Point, Ga., has contract, will involve the erection of a main mill building of brick, 2 stories, 107 by 240 feet, and about 50 frame cottages, all to cost \$148,000. Ten thousand spindles will be installed. Robert & Company, Inc., Atlanta, are the engineers.

Low Bid for Westcott Hosiery Mill.

Dalton, Ga.—The Barrett Construction Company, Dalton, submitted the low bid for the construction of the mill unit here for the Westcott Hosiery Mills, the structure to be 126 by 74 feet, 2 stories, with a one-story boiler room, 52 by 60 feet, brick walls, steel columns and beams and Barrett roof. Lockwood, Greene & Company, Inc., Charlotte, are the engineers.

Contract for Yarns Corporation Mill.

Contract for the construction of a one-story mill unit at Spartanburg, S. C., for the Yarn Corporation of America, New York, has been awarded to the Fiske-Carter Construction Company, Spartanburg. The building will be 219 by 106 feet, of steel, brick and concrete. Lockwood, Greene & Company, Inc., Charlotte, are the architects.

Klotz Firm Acquires Building for Silk Mill.

Reldsville, N. C.—The Klotz Silk Manufacturing Company, Inc., Clifton, N. J., has acquired the building of the Reldsville Warehouse Company and will equip it for the production of silk fabrics. Modern looms and throwing machinery will be installed.

British Cotton Shipments.

Manchester, England, April 16 [Special].—Exports of cotton yarns and manufactures from the United Kingdom during March amounted to £14,122,855 and the total of manufactured articles to £53,414,248, compared with £11,896,493 and £45,476,712 in February, and £13,413,378 and £49,062,921 in March, 1927. For the three months ended in March, the figures were £39,227,033 and £147,179,240, against £36,822,676 and £134,329,067 in the three months of 1927.

Shipments of cotton piecegoods in March totalled £10,696,253, representing 397,363,400 square yards, compared with £8,836,309 and 316,199,900 square yards in February, and £10,006,577 and 393,928,200 square yards in March, 1927. For the three months ended in March, the exports were £29,266,463, and 1,050,969,400 square yards, against £27,523,349 and 1,015,027,100 square yards in 1927. The quantity taken by the United States was 12,036,000 square yards, an increase of 44,500 square yards over the same period in 1927.

Cotton yarns shipped in March were valued at £2,068,926, the weight being 15,503,700 pounds. In February, the figures were £1,898,961 and 14,491,400 pounds, and in March, 1927, £2,079,469 and 19,270,800 pounds. During the three months ended March, the exports were £5,974,900 and 44,889,300 pounds, compared with £5,523,461 and 49,436,300 pounds, in 1927. The United States took 734,000 pounds, a decrease of 18,500 pounds.

\$250,000 Tapestry Mill for North Carolina.

Waynesville, N. C.—The Royle & Pilkington Company, Mount Holly, N. J., plans the early removal of one unit of its tapestry plant at Mount Holly to a site in Hazelwood, a suburb of Waynesville, according to an announcement by the Waynesville Chamber of Commerce. A local holding company will erect a mill building here; the completed plant to represent an investment of \$250,000.

Silk Throwing Mill for Asheboro.

Asheboro, N. C.—The Cetwick Mill, Inc., has been chartered to build and operate a silk throwing mill here to employ about 200 operatives initially. The enterprise will be owned by E. L. Cetwick of Asheboro, and N. C., M. E. and C. B. Cetwick of Bradford, Pa.

Scottsboro Manufacturing Company Incorporated.

Scottsboro, Ala.—Scottsboro Manufacturing Company, Inc., recently chartered, plans to build a mill here to manufacture chenille, oval and rag rugs, installing 25 looms and tufting machines. The mill building will be 150 by 60 feet. J. C. Jacobs is president of the company.

Union Hosiery Corporation Chartered.

High Point, N. C.—A charter has been granted the Union Hosiery Corporation, capitalized at \$100,000, the incorporators including W. B. Thomas, C. E. Earl, N. W. Bales, all of High Point, and others.

Addition Planned for Echota Mills.

Calhoun, Ga.—The Echota Cotton Mills plan a one-story addition to their mill building, 185 by 150 feet, and a two-story warehouse 50 by 150 feet.

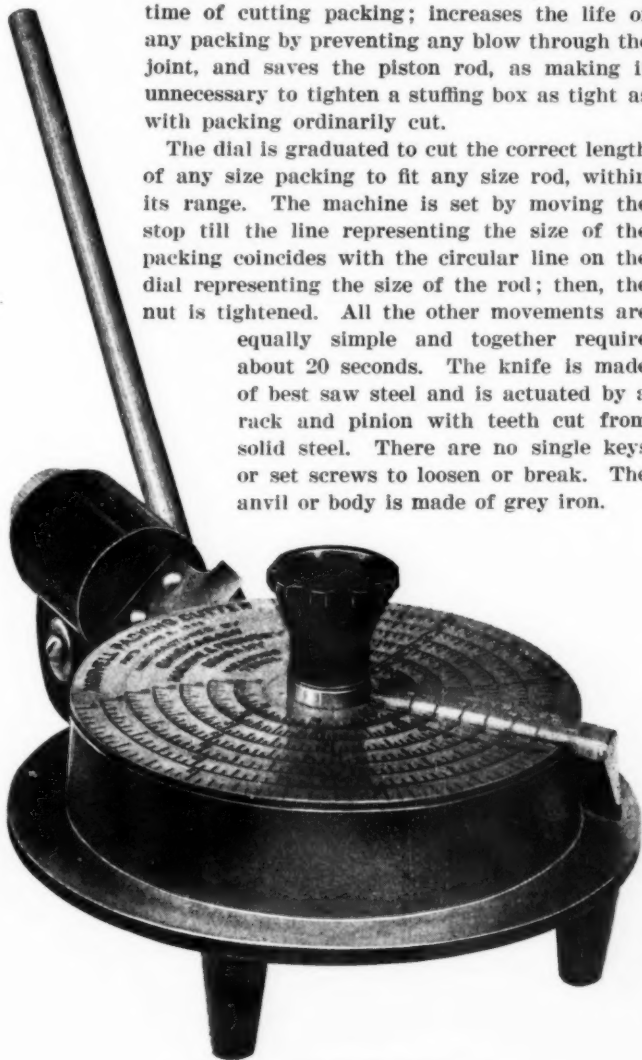
Sevier, N. C.—The Sevier Knitting Mills, Inc., capitalized at \$40,000, has been incorporated by S. H. Yancey and Guy S. Kirby of Marion, N. C., and M. L. Good of Sevier.

NEW AND IMPROVED EQUIPMENT

Packing Cutter to Save Waste.

In announcing the Norvell Packing Cutter, the Chickasaw Machine & Foundry Company, Memphis, Tenn., says that every engineer or superintendent recognizes that the cutting and fitting of fibrous packing for piston rods, valve stems and pump cylinders is a very wasteful and trying job. The Norvell packing cutter, it adds, eliminates waste of packing due to improper cutting; saves 80 per cent in time of cutting packing; increases the life of any packing by preventing any blow through the joint, and saves the piston rod, as making it unnecessary to tighten a stuffing box as tight as with packing ordinarily cut.

The dial is graduated to cut the correct length of any size packing to fit any size rod, within its range. The machine is set by moving the stop till the line representing the size of the packing coincides with the circular line on the dial representing the size of the rod; then, the nut is tightened. All the other movements are equally simple and together require about 20 seconds. The knife is made of best saw steel and is actuated by a rack and pinion with teeth cut from solid steel. There are no single keys or set screws to loosen or break. The anvil or body is made of grey iron.



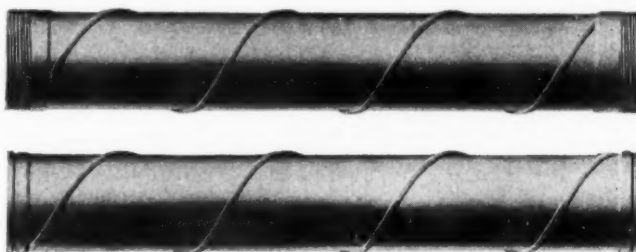
VIEW OF THE NEW MACHINE.

Jeffrey Ratchet Safety Lock.

For large elevators, pivoted bucket carriers, belt conveyors and similar equipment where the load on the vertical lift would cause a backward run of the equipment with interruption of power the Jeffrey Manufacturing Company, Columbus, Ohio, has developed a silent ratchet safety lock. Whenever it is necessary to stop the belt conveyor or elevator equipped with the Jeffrey Safety Lock, there is said to be no danger of backward slippage under a heavy load of stone or coal. This lock is designed to provide absolute protection against spilling a loaded elevator or inclined elevator where an unexpected interruption of power occurs. The Jeffrey silent ratchet safety lock can be fitted on elevators and inclined conveyors now in use, as well as on new installations.

Naylor Pipe of Toncan Iron.

A new pipe said to combine the advantages of the Naylor spiral lock-seam pipe with Toncan iron, has resulted in Naylor spiralweld iron pipe, made of Toncan iron. It is described by the makers, the Naylor Spiral Pipe Company of Chicago, as the only Toncan iron pipe made to wrought pipe standards,



At top—Threaded ends for use with threaded pipe fittings or companion flanges and flanged fittings.

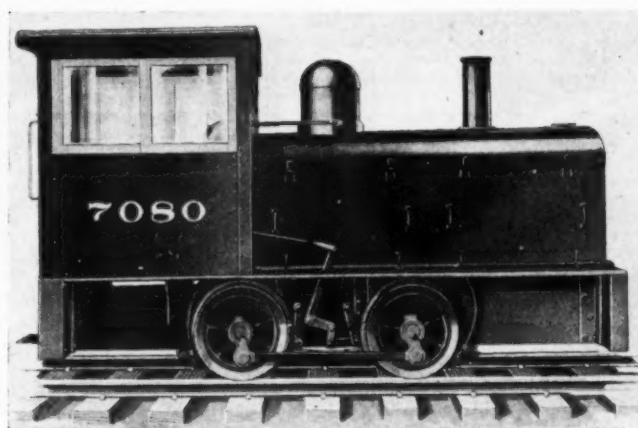
Bottom—Grooved ends for use with victaulic couplings and victaulic fittings.

sizes 4 inches to 12 inches, 20-foot lengths, threaded ends for standard screw fittings, and flanged ends for standard flange fittings, black, galvanized or asphalt dipped.

For some time the company has made it a practice to forward a short length of their pipe to anyone interested in better pipe for conveyance line purposes. This practice has given engineers an opportunity to observe its merits.

New Gasoline Locomotive.

A gasoline locomotive described by the makers as entirely new in design and drive principle has been brought out by H. K. Porter Company of Pittsburgh, Pa. The power plant, clutch and transmission are mounted on steel sub-frame and form a straight line drive to the reverse unit. This sub-frame acts as a torque arm pivoted on the rear axle and spring sus-



PORTER LOCOMOTIVE.

pended at the front to the main frame. The weight of the rear end of the sub-frame is carried on the main frame by a coil spring, the result being that all the vital parts of the locomotive—namely, the engine, radiator, clutch transmission and reverse unit—are mounted on a sub-frame which is spring suspended to a spring suspended cross-equalized main frame.

The main frames and bumpers are made of rolled steel slabs, the same as used on the Porter Steel Works locomotives. The running gear, including steel tired driving wheels, side rods, driving boxes, shoes, wedges, springs, etc., is the same as on the Porter steam dinky.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.
The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airports, Airplane Plants, Etc.

Ark., Paragould—West Nash Motors Co., erect steel hangar; E. M. Weems, Archt., M. A. West, Constr. Engr. See Want Section—Machinery and Supplies. 4-19

Fla., Miami—City Dept. of Aviation, A. H. Heermance, Director, advises probably be couple years before construction proposed airport begins; includes filling in approximately 100 acres, hangars, seaplane landing, hoist for removing seaplanes from water, adequate machine shops, and bridge to connect airport with mainland; expend about \$2,000,000. 4-19

La., New Orleans—Menefee Airways, Inc., capital \$20,000, incorporated; James C. Menefee, 2111 Burgundy St.

Md., Baltimore—Aircraft Corp. of Maryland, 2116 Maryland Ave., incorporated; Herbert C. Alken.

Miss., Greenville—Frank A. England, T. E. White and John D. Davis plan to incorporate; acquired 52 acres of land; develop for airport; also erect hangars to accommodate 2 or 3 airplanes. 5-26

S. C., Florence—City Council authorized H. K. Gilbert, Mayor, to purchase 143 acres for airport.

Tex., McAllen—Chamber of Commerce interested in establishing airport.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Birmingham—City Comm., probably receive bids, 40 to 50 days, for Twenty-second St. viaduct; few weeks later, to elevate tracks and construct Fourteenth St. underpass; A. J. Hawkins, City Engr. 1-19

Ala., Epsom—Southern Ry. System, J. B. Akers, Asst. to V.-P., Washington, D. C., receiving bids for Tombigbee River Bridge; D. T. vertical lift drawbridge, new piers; lift span, 184-ft. 6-in., approach spans, 100 and 115 ft. 3-19

Ark., Augusta—State Highway Comm., Little Rock, plans letting contract in 90 days for White River Bridge, Augusta; Harrington, Howard & Ash, Engrs., 1012 Baltimore Ave., Kansas City, Mo., preparing plans. 4-26

Ark., Strawberry—Lawrence County, Judge Childers, Walnut Ridge, and city of Strawberry, considering bridge across Strawberry River.

D. C., Washington—Dist. Commrs. receive bids May 10 to reconstruct Rock Creek bridge.

Fla., Fort Myers—State Road Dept., Tallahassee, receives bids June 15 for 8141 ft. Caloosahatchee River Bridge, Road 5, Lee County; double leaf 80-ft. clear channel bascule span; 4350 lin. ft. conc. pile trestle; 3711 ft. hydraulic fill approaches; 24-ft. roadway, 4-ft. 6-in. sidewalks; J. L. Cresap, State Highway Engr.

Fla., Miami—City Clk. receives bids May 21 for Miami River Bridge, S. E. Second St.; double leaf, simple trunnion bascule draw; plain conc. arch approaches, retaining walls, timber and conc. roadway; 4280 cu. yd. rein. conc., 3140 cu. yd. plain conc., 4180 sq. ft. steel sheet piling, 15,700 lin. ft. untreated wood piling; Harrington, Howard & Ash, Engrs., 1012 Baltimore Ave., Kansas City, Mo.; Ernest Cotton, Director of Public Works. 4-26

Fla., Miami—City Comm. receives bids May 21 for 2 double leaf bascule bridges over Miami River; S. W. First St., N. W. Seventeenth St. 3-19

Fla., St. Petersburg—Dr. H. Simmonds, Jr., 326 E. Eleventh St., and associates, may begin construction within 60 days of \$6,500,000 to \$7,000,000 7-mi. Tampa Bay Bridge, St. Petersburg to Piney Point; suspension arch, with 154-ft. clearance; 3 mi. from

suspension, draw span across Pass-a-Grille channel; towers support 1,050-ft. span in center, two 504-ft. spans; 22-ft. roadway reaches altitude of 154 ft. for start at sea level, highest grade 4.5 per cent; Robinson & Steinman, Const. Engrs., 117 Liberty St., New York. 4-19

Fla., Stuart—Martin County Commrs., H. N. Gaines, Chmn., receive bids May 15 for hydraulic fill approaches, replace wooden truss superstructure with steel girders and creosoted timber deck; 350,000 lb. struct. steel, 186,000 F. B. M. creosoted timber, 16,000 F. B. M. untreated timber, 80,000 cu. yd. hydraulic fill; E. H. Gibson, County Engr.

Fla., Stuart—Martin County receives bids soon for \$125,000 St. Lucie River Bridge, between Stuart and Palm City; E. H. Gibson, County Engr.

Ga., Columbus—Muscogee County Comm. plan \$9137 creosoted timber bridge over Central of Georgia tracks, Macon road, near Bull Creek.

Kentucky—State Highway Comm., Frankfort, plans 28 bridges in Greenup, Muhlenberg, McCreary, Green, Madison, Hardin, Ohio, Hickman, Carlisle, Perry, Floyd, Harlan, Lincoln, Breathitt, Gallatin, Jefferson, Shelby, Meade, McLean-Hopkins, Elliott, Woodford, Scott, McCracken Counties, and superstructures only in Magoffin and Morgan Counties.

Kentucky—See Roads, Streets, Paving.

Ky., Henderson—Henderson-Ohio Bridge Co. granted permit to build \$3,000,000 Ohio River Bridge; no steps taken to finance; no engineer employed; Henson & Taylor, Attys.

Ky., Louisville—Louisville Bridge Comm., Wm. Black, Chmn., receives bids May 15, at office of Public Utilities Bureau, for 8 main piers of Ohio River Bridge; 300 cu. yd. rock excavation, 800 lin. ft. foundation dowels; 9400 cu. yd. Class "A" conc. below, and 11,200 cu. yd. Class "B" conc. above stone facing, 55,000 lb. struct. steel, 20,000 lb. rein. steel; Ralph Modjeski and Frank M. Masters, Engrs., Keystone Bldg., Harrisburg, Pa. 1-19

Miss., Jackson—Hinds County Bd. of Suprs. receives bids June 7 for 75-ft. steel span, 12-ft. roadway, 180-ft. treated timber trestle, White Oak Creek, near Utica; W. B. Montgomery, Engr., Henry Memorial Bldg.

Mo., La Plata—Bd. of Suprs., Knox-Shelby Drainage Dist., Knox and Shelby Counties, G. W. Howerton, Sec., receives bids May 11 for four 80x14 pin connected steel spans on 8-in. H steel piling, 32-ft. long; Ben B. Hurst, Engr. in charge, Rock Port, Mo.

North Carolina—State Highway Comm., Raleigh, plans rein. conc. bridges and culverts; Proj. 5000—Alamance Co., \$70,000; No. 619, Cabarrus County—\$60,000; No. 8210, Cleveland County—\$25,000; L. R. Ames, Engr.

South Carolina—State Highway Comm. received low bids for 5 bridges, culvert and underpass. See Roads, Streets, Paving.

Tenn., Blountville—Dept. of Highways and Public Works, Nashville, making surveys for \$25,000, conc. steel Holston River Bridge, Sullivan County.

Tenn., Cleveland—Bradley County Court, Arthur Traylor, Judge, considering 6 bridges: 50-ft., Harris Creek; 30-ft., Gap Springs, Blue Springs, Mitchell Crossing at Candass Creek; 40-ft. Chestnut Creek, and Cate Bridge over Chatata Valley Creek.

Tex., Dallas—City and Dallas County will build, jointly, \$35,000 emergency steel bridge over present channel, Trinity River, on Cadiz St. river bottom road; Arthur Reinhardt, Street Commr.

Tex., Houston—City Council, W. A. Moore, Sec., approved plans for 176-ft. Brays Bayou Bridge, Forest Hill Drive; J. C. McVea, Engr.

Virginia—See Roads, Streets, Paving.

Va., Lynchburg—See Roads, Streets, Paving.

W. Va., Huntington—City Commrs., H. J. Fielder, Clk., receive bids May 9 to excavate and haul 70,000 cu. yd. dirt for fill at Madison Ave. and Four Pole Creek for bridge.

W. Va., Morgantown—Monongalia County receives bids soon for \$135,000 steel bridge, South Park; W. S. Price, Engr.

Contracts Awarded

Ga., Folkston—J. D. Moor & Co. has sub-contract for 90-ft. steel lift span, 460-ft. wood trestle, over Satilla River, Burnt Fort; Bauman & White, Contractors, Waycross. 4-19

Mo., St. Joseph—State Highway Dept., Jefferson City, let contract, \$551,796, for toll-free Missouri River Bridge, between Missouri and Kansas; Missouri Valley Bridge & Iron Co., Leavenworth, Kan., piers; Oscar H. Schmidt, Bartlett Tr. Bldg., St. Joseph, approaches, including substructures, superstructures, approach fill and pavement on fill; Mount Vernon Bridge Co., Mount Vernon, Ohio, for 900-ft. continuous span; Oscar H. Schmidt let sub-contract to E. A. Whitney & Son, 616 City Bk. Bldg., Kansas City, for pile driving. 3-29

Mo., St. Joseph—Bd. of Park Commrs. let contract to Whitham Contracting Co., 422½ Francis St., \$16,536, for parkway overhead crossing, Eleventh St. south of Grand Ave.; 34-ft. rein. conc. deck girder span, with necessary backfill; 30-ft. roadway.

Mo., St. Joseph—Louis V. Stigall, Mayor, reported, let contract to Mt. Vernon Bridge Co., Mt. Vernon, Ohio, for 2000 tons struct. shapes; Missouri Valley Bridge and Iron Co., for 361 tons rein. steel, for Missouri River Highway Bridge. 3-29

Mo., St. Louis—Bd. of Public Works, reported, let contract for 6000 tons struct. shapes, for Southern approach, Municipal free bridge; Fabrication, American Bridge Co., \$78.75 per ton; erection, Ben Hur Erection Co., \$18.40 per ton. 3-22

S. C., Charleston—McClintic-Marshall Co., Pittsburgh, Pa., reported, has contract for 8000 tons, and Virginia Bridge and Iron Co., Roanoke, Va., for 4000 tons struct. shapes, for Cooper River Bridge, over Cooper River and Town Creek; Cooper River Bridge, Inc., John P. Grace, Pres., 45 Broad St., increased capital, \$500,000 to \$3,930,000. 4-26

S. C., Greenville—City, Alvin H. Dean, Mayor, let contract to D. M. Rickenbacker, Union, \$24,676, for 186-ft. River St. Bridge, 40-ft. driveway; sidewalks. 4-12

Tenn., Perryville—War Dept., Washington, approved plans Dept. of Highways and Public Works, Nashville, for Tennessee River Bridge, Perryville; National Construction Co., Jacksonville, has contract. 3-22

Texas—See Roads, Streets, Paving.

W. Va., Point Pleasant—State Road Comm., Charleston, let contract to Price Construction Co., 2702 Third Ave., Huntington, \$14,585 for rein. conc. highway Crooked Creek Bridge, near Point Pleasant, Charleston-Point Pleasant road. 4-19

W. Va., Welch—City, Mayor Blakely, let contract to Mirable & Defuria, \$7105, for con. and steel bridge, Woodmont Crossing, across Elkhorn Creek, connecting Maple and Slant Ave.; heavy steel girders, overlaid with conc.

Canning and Packing Plants

Ala., Stevenson—Geo. R. Bible plans establishing canning and packing plant. See Want Section—Machinery and Supplies.

Okla., Thackerville—Southern Oklahoma

Cannery, W. C. High, Mgr., plans erecting cannery.

Va., Big Stone Gap — Farmers Cannery, Inc., capital \$25,000, incorporated; Creed P. Kelly, W. G. Matthews; has building and machinery for tomato plant.

Va., Downings — J. W. Welch Co., Inc., chartered; J. W. Welch, Downings; F. J. Douglas, Farnham; establish tomato canning plant.

Va., Harrisonburg — Shenandoah Valley Canning Co., enlarge building; install additional machinery; erect frostproof storage; increased capital stock.

W. Va., Romney — American Fruit Growers, Inc., 2100 Pennsylvania Ave., Pittsburgh, Pa., Henry J. Williams, Dist. Mgr., interested in locating apple packing plant; Hampshire County Fruit Growers Assn., Romney, also interested.

Clayworking Plants

Tenn., Paris — Central Clay Co., capital \$150,000, incorporated; Don Dumas, Jr., J. I. Palmer.

Tex., El Paso — Denver Fire Clay Co., capital \$20,000, incorporated; Leroy G. Hetrick, Mills Bldg.

Coal Mines and Coke Ovens

Kentucky — Halsey, Stuart & Co., Inc., New York, offering \$12,500,000 first mortgage sinking fund 5% gold bonds, Peabody Coal Co. (consolidated company), which will shortly be formed under laws of Illinois by consolidation of present company of same name with several other Illinois coal companies controlled by subsidiaries of Commonwealth Edison Co., Public Service Co. of Northern Illinois and Middle West Utilities Co., all of Chicago; company will also acquire, immediately after consolidation, coal interests now controlled by subsidiary of Peoples Gas Light & Coke Co.; upon completion of consolidation and acquisitions company will have an annual production capacity of approximately 20,000,000 tons and will own or control an estimated aggregate of over 1,000,000,000 tons of recoverable and merchantable coal; will own 22 mines located in Illinois, Kentucky and Indiana; will also operate for other companies 13 mines located in Illinois, Kentucky, West Virginia and Pennsylvania. General office, Peabody Coal Co., 332 South Michigan Ave., Chicago, Ill.

Ky., Anchor — Anchor Block Coal Co. increased capital, \$10,000 to \$25,000.

Concrete and Cement Plants

Ga., Calhoun — L. B. Kennington, Chmn., Committee to organize Farmer's Gin Co.; construct gin.

Ky., Frankfort — Kentucky Shearman Concrete Products Co., capital \$60,000, incorporated; Leslie W. Morris, J. Back Blanton, Wm. D. Nicol; will manufacture rein. and plain conc. sewer pipe; locate factory on 13-acre site.

Cotton Compresses and Gins

Ala., Decatur — A. Polytinski and M. F. Shipper plans building cotton compress Wilson Ave. and Canal St.

Ala., Madison — Home Oil Co., plans erecting \$20,000 cotton gin.

La., Homer — Newman & Kinnebrew Gin Co., Inc., capital \$20,000, incorporated; Dan Kinnebrew.

Tenn., Memphis — R. E. Lee Wilson, Wilcox, Ark., has contract for second unit of Tri-State Compress Co., at Hollywood, cost \$200,000; rein. conc. and wood; G. V. Begley, will supervise construction; Robt. J. Cummins Co., Inc., Bkrs. Mtg. Bldg., Houston, Tex., Engrs. and construction designers.

Tex., Groesbeck — Red Gin Co., capital \$12,000, incorporated; M. J. Anderson, H. W. Gabriel.

Tex., Houston — Don Hall, Cotton Exchange Bldg., has contract at \$150,000 for general commodity warehouse on Ship Channel for Houston Compress Co.; Houston Structural Steel Co., 3910 Washington St., \$53,608, structural steel; Grinnell Co., Santa Fe Bldg., Dallas, \$26,122, sprinkler system; R. J. Cummins, Consit. Engr., Bankers Mtg. Bldg. 4-5

Cottonseed-Oil Mills

Miss., Yazoo City — Planters Cotton Oil Co. will electrify plant; closed contract with Public Service Comm. for current.

Drainage, Dredging and Irrigation

Mo., La Plata — Bd. of Supvrs. of Knox and Shelby Counties, receives bids May 11 for construction of 5 mi. of drainage ditch on Salt River; 229,000 cu. yds. of excavation. See Want Section—Bids Asked.

Tex., La Porte — R. S. Sterling, Chmn. of Port Comm., Houston, entered into lease contract (subject to approval of Government Engrs.) with Capt. C. A. Barbour, First Natl. Bank Bldg., Houston, and associates, of La Porte, for dredging tributary ship channel, 30 ft. deep and 200 ft. wide through San Jacinto Bay, along La Porte frontage; will connect with Houston ship channel near Morgan's cut; turning basin to be dug at its western terminus; work to begin within 6 months; channel and turning basin to be completed within 2 years; dike, constructed of dirt dug up in channel will be 1000 ft. wide and 18 ft. high; expend \$1,000,000 for improvement on channel, \$250,000 of which will be for permanent wharf facilities. 4-12

Va., Hampton Roads — See Want Section—Bids Asked.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Rogersville — Alabama Power Co., Birmingham, plans installing transmission line, contingent upon receiving franchise, furnish light and power to Shoals Creek Bridge, Killen, Center Star, Cross Roads; later construct branch lines St. Florian, Anderson, Lexington.

Fla., Lake Worth — Southern Engineering and Management Corp. negotiating for municipal light and water system.

Fla., Marianna — Southern States Power Co. plans \$100,000 expansion this year; install 840 h.p. Diesel engine; erect conc. plant on Jefferson St., etc.

Ga., Broxton — Southeast Georgia Power Co., Douglas, acquired city lighting plant.

Maryland — Electric Public Utilities Co., Dover, Del., and Chicago, Ill., denied permission by Public Service Comm. to acquire Home Electric Light Co., Lonaconing; Midland Electric Co., Allegheny County; Antietam Electric Light and Power Co., Washington County, and Emmitsburg Electric Co., Frederick County. 5-26-27

Md., Baltimore — Eagle Iron Works, Sylacauga, Ala., low bidder for Items 1 and 2 and J. B. Foundry Co., Talladega, Ala., for Item No. 3 for ornamental lamp posts.

Miss., Flora — Mississippi Power Co., Gulfport, negotiating for city light plant.

Miss., Leland — Town receives bids May 22 for power plant improvements. See Want Section—Bids Asked.

Miss., Prentiss — Town, R. L. LaMaire, Clk., receives proposals May 8 for purchase of electric light and water plant and granting 25 year franchise.

Miss., Yazoo City — Mississippi Utilities Co., Jackson, extend lines between Yazoo City and Midnight, including Silver City and Louise; construct ice plant at Silver City and Louise.

Mo., St. Joseph — Cater Construction Co., 122 W. Fifth St., Kansas City, has contract at \$37,885 for boulevard lighting system; 110,000 ft. cable, 303 standards, transformers, etc.; all materials purchased from Graybar Electric Co., 1644 Baltimore St., Kansas City.

Mo., St. Louis — Bd. of Public Service receives bids May 15 for piping for boiler room of Municipal Service Bldg. 4-26

Oklahoma — Southwestern Light and Power Co., Braniff Bldg., Oklahoma City, rebuild distributing system at Duncan, extend line at Hollis. 4-19

Okl., Sasakwa — City votes May 22 on granting electric light franchise.

Tenn., Cookeville — City may issue \$150,000 bonds to enlarge hydro-electric plant on Falling Water River.

Tenn., Erin — Dover Power Co., Inc., L. F. Stone, Pres., reconstruct transmission line to Ridge; let contract to Post-Glover Electric Co., 215 N. Third St., Cincinnati, O., and Lake States G. E. Supply Co., Evansville, Ind., for equipment; later plan line from Bear Springs to Indian Mound, Big Rock, Bumpas Mills in Stewart County. 4-19

Texas — Middle West Utilities Co., 72 W. Adams St., Chicago, Ill., acquired control of National Electric Power Co. and majority of common stock of Inland Power and Light Co.; having properties in Missouri, Oklahoma, Arkansas.

Tex., Castroville — Castroville Light and Power Co. acquired holdings of Jordan T. Lawler in Precinct No. 2, Medina County; will supply current to town and adjacent rural communities; has tie in with San Antonio Public Service Co.

Tex., Dalhart — Dalhart Public Service Co. let contract to West Texas Utilities Co., Abilene, for 40x80-ft. addition; brick and steel, cement floors; install 500 h.p. McIntosh-Seymour engine. 4-26

Tex., Houston — City Council authorized white way, Rusk St. from Main to Bagby, installed by Houston Lighting and Power Co.; also water main Lyons to Clinton, on Waco St.

Tex., Rock Springs — Central Power and Light Co., Frost Natl. Bank Bldg., San Antonio, lately noted planning construction dam on Rio Frio near Con Can, advises do not plan any work here. 4-26

Tex., Weimar — Middle West Utilities Co., 72 W. Adams St., Chicago, Ill., reported, acquired Weimar Power and Light Co.

Va., Manassas — Virginia Public Service Corp., Charlottesville, acquired Stonewall Power Co.

Va., Richmond — Virginia Electric and Power Co. increased authorized preferred stock \$15,000,000 to \$20,000,000.

Va., Richmond — Council Utilities Committee appropriated \$9000 for E. Main St. lighting; and \$25,000 for improving newly acquired section of Oakwood Cemetery.

Foundry and Machine Plants

Mo., St. Louis — Century Electric Co., 1806 Pine St., erect foundry building; brick, rein. conc., 1 story and basement, 262x242 ft.; Klipstein & Rathmann, Archt., 316 N. Eighth St.

Mo., St. Louis — Stockholders of National Bearing Metals Corp., Kingshighway and Manchester Ave., ratified merger with American Brake Shoe and Foundry Co., John B. Strauch, Pres.; greatly increase annual production of National Bearing Metals Corp.

Tex., Houston — Dedman Foundry and Machine Co., Buffalo St., capital \$160,000, incorporated; H. W. Dedman, C. E. Newton, A. E. Amerman.

Tex., San Antonio — Rylander Cotton Machines Co., capital \$50,000, incorporated; W. W. McAllister, Bldg. Exch. Bldg.

Gas and Oil Enterprises

Ala., Birmingham — Fidelity Oil and Gas Co., capital \$50,000, incorporated; J. L. Davidson, American Tr. Bldg.

Ark., Clarksville — Clarksville Gas Co., Hanna Bldg., construct pipe line gas fields to city.

Ark., Conway — City granted gas franchise to Public Utilities Corp. of Arkansas, El Dorado.

Ark., Fort Smith — Arkansas Railroad Comm., Little Rock, granted Citizens' Gas Co., permit to construct gas pipe line gas fields north of Greenwood Junction.

Ark., Jonesboro — John A. Reed, Cedar Rapids, Iowa, constructing distribution system; purchase and lay pipe through own organization. 4-26

Fla., De Land — De Land Gas Service Co., incorporated; C. B. Hawley, F. L. Cavis.

Md., Cumberland — Cumberland and Allegheny Gas Co., J. A. Mayers, V.-P., expend \$200,000 in 1928 for extensions and improvements. 4-19

Miss., Magnolia — J. O. Mack and R. E. Collins, Monroe, La., granted 25-yr. natural gas franchise; construct pipe line from Monroe crossing Mississippi River at St. Joseph, across Franklin county, Miss., and direct from Bude to point west of Fernwood and on toward New Orleans.

Missouri — Halsey, Stuart & Co., Harris, Forbes & Co., National Cities Co., Bonbright & Co., Inc., E. H. Rollins & Sons, A. B. Leach & Co., Inc., Federal Securities Corp., and Henry L. Doherty & Co., all New York, Pearsons Taft Co., Chicago, Ill., offering \$50,000,000 5% gold debentures of Cities Service Co., 60 Wall St., New York; proceeds to be used for retirement of funded debt of company and funded debt or preferred stock of subsidiaries. 4-19

Mo., Festus — H. E. Miller Oil Co., incorporated; M. W. Brickey, H. E. Miller.

Mo., Kirksville — National Utilities of Mis-

souri, subsidiary of National Gas and Electric Corp., 26 E. Main St., Battle Creek, Mich., acquired Kirksville Gas, Heat and Electric Co. and Brookfield Gas and Electric Co.; no intensive expansion program contemplated for immediate future.

Mo., North Kansas City. Br. Kansas City—City votes May 8 on granting gas franchise to Gas Service Co.

North Carolina—Great Northern Utilities Co., 3933 Drexel Blvd., Chicago, Ill., will expend about \$6,000,000 on gas projects in Piedmont section of Carolinas. 4-12

Oklahoma—Winchester Oil and Gas Co., Blackwell, negotiating for gas franchise in Waynoka, Shattuck, Mooreland, Woodward, Gage and Cherokee.

Okla., Muskogee—Municipal Gas Co., negotiating for industrial and domestic gas franchise; Muskogee Natural Gas Co., for industrial gas franchise; city votes about July 3 on granting gas franchise. 3-1

South Carolina—Great Northern Utilities Co., Arthur J. Smith, 3933 Drexel Blvd., Chicago, Ill., has franchise in Honea Path, Belton and Sharon. 2-9

Texas—Community Natural Gas Co., (subsidiary of Lone Star Gas Co.) 1915 Wood St., Dallas, negotiating for franchises in Holland, Granger, Bartlett, Roundrock, Hutto and Georgetown.

Texas—Southwest Gas Utilities Corp., offering \$1,750,000 first lien and secured sinking fund gold bonds, 6½% series, due 1943 with stock purchase privilege, through Edmund Seymour & Co., Inc., Charles D. Robbins & Co., Nixon & Co., Inc., all New York; company and its subsidiary companies is consolidation of 32 natural gas distributing systems together with gas gathering and transmission lines serving communities in Oklahoma, Texas and Louisiana; proceeds to be used to retire bonds of subsidiaries, provide part of funds to make payment for securities being acquired. 4-26

Texas—Texas Cities Gas Co., organized, as subsidiary of Union Utilities, Inc., 50 Williams St., New York; own and operate gas manufacturing and distributing system of El Paso, Galveston, Paris and Brenham, Tex.; properties will include 5 gas manufacturing plants with daily capacity of 12,000,000 cu. ft. and 12 gas holders with aggregate storage capacity of 3,407,000 cu. ft.; P. W. Chapman & Co., Inc., New York, offering \$2,500,000 two year 5½% gold notes (closed issue). 4-26

Tex., Athens—Wm. F. Dodson, representing finance corp., granted gas franchise.

Tex., Beaumont—Veteen Oil Co., capital \$40,000, incorporated; T. J. Bland, 1310 Orleans St.

Tex., El Paso—Union Utilities, Inc., 57 Williams St., New York, acquired properties of El Paso Gas Co.

Tex., Fort Worth—Flensy Drilling Co. incorporated; W. J. Flensy, Wm. A. Hudson, 1315 E. Third St.

Tex., Galveston—Galveston Gas Service Co., incorporated; O. B. Wigley, 2201 31st St.

Tex., Houston—Houston Gulf Gas Co. offering \$11,000,000 first mortgage and collateral 6% gold bonds, Series A, through Blair & Co., Inc., G. E. Barrett & Co., Inc., and Estabrook & Co., all New York; company, a Delaware corporation, and its subsidiaries produce and distribute natural gas through Houston Gas & Fuel Co. to Houston; Southern Gas Co., San Antonio; Southern Gas Utilities, Inc., New Braunfels, Seguin, Hondo, D'Hanis and other communities west and northeast of San Antonio; also supplies gas for distribution in Brownsville, San Benito and other communities along Lower Rio Grande Valley; Western Gas and Fuel Co. supplies gas for distribution in Austin; supplies gas to Houston Lighting and Power Co., Sinclair Refining Co., Texas Portland Cement Co., etc.; proceeds from sale to retire company's present funded debt; to acquire common stocks above referred to of Houston Gas and Fuel Co. and Southern Gas Co. and properties of Houston Gulf Pipe Line Co.; for working capital and other corporate purposes.

Tex., San Angelo—Big Lake Refining Co., capital \$300,000, incorporated; E. B. McKee, San Angelo; J. R. Cleveland, 827 E. Third St., Tulsa, Okla.

Tex., San Antonio—Gleason Oil Co., capital \$50,000, incorporated; L. O. Gleason, 111 Castillo St.

Tex., San Antonio—American Central Oil and Gas Co. incorporated; O. L. Gates, 1606 W. Craig St.

Tex., Shiner—Southwest Gas Co., Houston, granted franchise to lay gas mains.

Tex., Vernon—Pease Valley Gas Co., capital \$15,000, incorporated; W. R. Stinnett, C. O. Moore.

Tex., Waco—Union Utilities, Inc., New York, acquired local gas property of Texas Power & Light Co., Dallas.

Tex., Wichita Falls—Eastern Oil Corp., incorporated; Reece S. Allen, J. D. Straus.

Virginia—Intercontinent Gas Corp., 11 Broadway, New York, advises expect to build plant in western part of State for manufacture and distribution of gas; probably 30 days before organization has been completed to carry on this work. 4-26

Va., Norfolk—City Gas Co. changed maximum authorized capital stock from \$3,000,000, consisting of \$1,000,000 common and \$2,000,000 preferred to 200,000 shares common without par value and \$2,000,000 preferred.

Ice and Cold-Storage Plants

Ga., Canton—Marietta Ice & Coal Co., Marietta, acquired Canton Ice Co.

Md., Capital Heights—Capital Heights Ice & Fuel Corp., Clewton and Central Aves., incorporated; Sellig Postin.

N. C., Charlotte—Southern Fruit Co., Inc., 409 W. Second St., erect \$100,000 warehouse, Mint and Gold Sts.

Tex., Brackettville—Central Power and Light Co., Frost Bldg., San Antonio, erect \$25,000 cold storage plant.

Tex., Dallas—Dry-Kold Products Co., Inc., Claude Kavanaugh, Pres., plans erection of 10 plants for manufacture of dry ice throughout Texas and Louisiana; cost \$2,000,000. 3-1

Iron and Steel Plants

Miss., Jackson—Mississippi Steel & Iron Co., Inc., High and Monroe Sts., erect plant with output of 200 tons per month of structural, ornamental iron, building specialties; owner builds. See Want Section—Machinery and Supplies. 3-26

Tex., Fort Worth—Fort Worth Structural Steel Co., capital \$75,000, incorporated; J. H. Brillhart, Arlington Heights.

Land Development

Ala., Birmingham—Bilrite Realty Co., incorporated; J. S. Marks, Bkrs. Rd. Bldg.

Ala., Birmingham—Edwards Realty Co., incorporated; J. A. Edwards, Bankers Bond Bldg.

Ala., Birmingham—Wharton Realty Co., incorporated; R. H. Wharton, 4311 Clairmont Ave.

Ark., Siloam Springs—Forest Park Co., J. W. Sloan, George Smeeten, both Sapulpa; acquired summer resort of 1300 acres, including 40-room hotel, dance hall, greenhouses and orchards.

Fla., Fort Lauderdale—Gerren Heights Corp., incorporated; John M. Gerren, W. S. Holliday.

Fla., Marianna—Gordon Co., incorporated; A. Robinson, J. C. Corcoran.

Fla., Monteverde—Ferndale Groves Co., capital \$25,000, incorporated; R. G. Brewster, R. P. Hamlin.

Fla., St. Augustine—Mrs. L. Brackett Bishop, 421 Adams St., Chicago, Ill., acquired tract on St. Johns River near Picolata, including orange grove; construct dock and bathing pavilion.

Fla., St. Petersburg—Thos. L. Heard, Inc., chartered; Thomas L. Heard, Fla. Arcade.

La., New Orleans—Norman Mayer Realty Co., Inc., capital \$100,000, incorporated; Norman Mayer, 4920 St. Chas. Ave.

La., New Orleans—Parkside Realty Co., Inc., capital \$500,000, incorporated; Frank L. Ramos, 4546 S. Galvez St.

La., New Orleans—Amelia Realty, Inc., incorporated; John P. Tessitore, 1201 Burgundy St.

La., New Orleans—Sprague Land Co., Inc., capital \$32,000, incorporated; Samuel Dreyfuss, 2708 Carrollton Ave.

Md., Baltimore—McNeill Properties, Inc., 223 E. Redwood St., incorporated; Robt. H. McNeill.

Md., Baltimore—Yorktown Realty Corp., 6 E. Mulberry St., incorporated; J. Baker Boyd.

Md., Baltimore—Ramblewood Farms, Inc., Equitable Bldg., incorporated; Edwin F. A. Morgan.

Md., Baltimore—Garden Homes, Inc., 34 Knickerbocker Bldg., incorporated; Herbert J. West.

Md., Baltimore—The Mountain Co., 513 N. Charles St., incorporated; Edward L. Palmer, Jr.

Md., Baltimore—Cityco Realty Co., 7 St. Paul St., purchased for future suburban development 240 acres on west side Marley Creek.

Md., Baltimore—Nowell Improvement Co. incorporated; C. Grant Tall, 3610 Clifton Ave.

Md., Baltimore—Barker Brothers Corp., 101 E. Fayette St., incorporated; Elvon Musick.

Md., Silver Springs—E. C. Kinnear Co., Inc., incorporated; Eugene C. and John B. Kinnear.

Mo., Kansas City—Park Bd., M. A. Foster, Pres., develop 59 acres Swope Parkway and Meyer Blvd., for 9 hole golf course.

Mo., Mendon—Mendon Land and Development Co., capital \$25,000, incorporated; Nathan Clare, J. N. Engleman.

Mo., Webster Groves—Webster Hills Realty Co., 737 Boatmen's Bank Bldg., St. Louis, develop 29 acre subdivision; install sidewalks, streets and gutters, gas, water, sewers. 4-26

N. C., Belmont—Gaston Realty Co., capital \$100,000, incorporated; R. F. Cox, W. D. Crawford.

N. C., Charlotte—Moretz, Nivens & Tuttle, Inc., capital \$100,000, chartered; Charles D. Moretz, 609 Grandin Rd.

S. C., Barnwell—Col. Edgar A. Brown will have plans for golf course prepared by J. A. Searles, Ailsin; 9 holes, club house, raise present dam, provide lake, construct bathing pool.

Tenn., Nashville—Belle Mead Land Co. acquired 223 acres on Harding Rd.

Texas—John B. Sosnowski, 5002 Chene St., Detroit, Mich., representing Michigan capitalists, plans Polish colonization vicinity Cotulla and Laredo.

Texas—Philip Welhausen and M. C. Driscoll, Yoakum, plan land development in San Patricio and Aransas counties; divide into 320 acre farms, erect 5 room frame house on each section with well and windmill, overhead tank and graded roads.

Tex., Ballinger—T. R. Setser, Norton, acquired 660 acres on Concho River.

Tex., Beaumont—Col. R. C. Duff, Houston, Pres. of Waco, Beaumont, Trinity and Sabine Ry. Co., has option on 14,000 acres Jefferson County land, fronting 10 miles on Sabine-Neches waterway and Taylor's Bayou for industrial development; will organize Sabine-Neches Development Co., for handling industrial sites; waterfront properties will be prepared for shipping by constructing wharves and piers, at cost of \$5,000,000; initial expenditure \$10,000,000.

Tex., Canadian—Jesse and Otto Yokley acquired 9527 acres north side Canadian River; develop subdivision.

Tex., El Paso—El Paso Nursery Co., Inc., incorporated; Wm. B. Henry, 4112 Hueco St.

Tex., Gainesville—Pink Williams, Ardmore, acquired site from John Mahau, for pleasure resort, tourist camp, swimming pool, etc.

Tex., Granger—R. A. Holbert, Chrmn., Golf Committee, interested in developing a 9 hole golf course.

Tex., Houston—Park Realty & Investment Co., Second National Bank Bldg., acquired 15½ acres on Telephone Rd.

Tex., Houston—Gulf Coast Land Co., incorporated; C. A. Weber, 1815 Clark St.

Tex., Houston—River Oaks Corp. let contract to Uvalde Rock Asphalt Co., Post-Dispatch Bldg., for paving in River Oaks subdivision; Ricker Construction Co., for storm and sanitary sewers; will landscape oval in center of Rebecca Meyer Park; improvement in southern section of subdivision under direction of H. A. Klipp, River Oaks Bldg. 4-26

Tex., Lufkin—City Comm. develop 13-acre park.

Tex., Port Aransas—Gail Borden Munsill, Pres., Aransas Holding Co., plans developing commercial and resort facilities on Mustang Island, about 600 acres.

Tex., Port Arthur—Greenland Memorial Park, capital \$20,000, incorporated; Elma A. Gifford, 1824 Procter St.

Tex., San Angelo—Jack Nance construct 9 hole golf course and club house.

Tex., San Antonio—Wood Properties, Inc., acquired 25 acres on Blanco Rd., develop subdivision; tourist hotel.

Tex., San Antonio—City let contract to D. and W. McNair, 810 Delmar St., to install \$13,000 water system, Brackenridge Park golf course.

Tex., San Saba—W. W. Rainwater, Ballinger, acquired 620 acre ranch and pecan grove.

Tex., Weslaco—Restlawn Memorial Park, incorporated; P. P. Doss, R. G. Hobbs.

Va., Chester—Chesterfield Building Corp., capital \$25,000, incorporated; H. A. Lindsey, Chester; W. J. Carr, Richmond.

Va., Norfolk—J. Frank East, Inc., incorporated; J. Frank East, Jr., 900 Shirley Ave.

Va., Richmond—Richmond and Petersburg Development Corp., Frank G. Louthan, Pres., Amer. Natl. Bank Bldg., acquired 111 acres on Petersburg turnpike; develop subdivision.

Va., Richmond—Courtland Land Corp., capital \$50,000, incorporated; L. S. Herink, Times Dispatch Bldg.

Va., Richmond—See Electric Light and Power.

Lumber Enterprises

Ala., Birmingham—Hedona Lumber Co. incorporated; L. E. Ford, 2117 First Ave., N. Fla., Perry—Wilson Lumber Co. of Florida incorporated; A. G. Wilson, J. L. Shippen.

La., Hammond—John Lumber Co., Inc., incorporated; John W. Bradely, Geo. McWilliams.

La., Shreveport—Welori Lumber Co., capital \$428,000, incorporated; T. L. Weaver, H. J. Rivers, F. W. Looney.

Md., Williamsport—G. A. Miller Lumber Co., Inc., incorporated; G. Arthur and R. H. Miller.

Miss., Columbus—L. Marx acquired Lucas E. Moore Stave Co.

Miss., Columbus—Bigbee Veneer and Lumber Co., capital \$25,000, incorporated; W. F. Backstrom, B. P. Carr.

Tex., Dallas—Niendorf Timber Co., incorporated; John H. Niendorf, 3313 Cornell St.

Va., Richmond—Alpine Lumber Co., incorporated; Ralph T. Catterall, Amer. Bank Bldg.

Va., Waverly—Waverly Pole and Lumber Co., incorporated; Frank P. Pulley, Jr., Lloyd C. Pulley, Jr., R. B. Johnson.

W. Va., Wheeling—Scott Lumber Co., Lincoln Ave., acquired site, 1112 Chapline St., remodel.

Mining

Fla., Bartow—Davison Chemical Co., Baltimore, acquired controlling interest Southern Phosphate Corp. with operating offices at Bartow, Fla., and main office in New York City.

Tex., Midland—American Potash Co. of Dallas, organized; J. N. Stier, 4102 Lemmon St.; J. B. Adoue, and others, all Dallas, acquired tract of land in Midland County, plans mining by shafts and underground workings to recover potash.

Miscellaneous Construction

Fla., Jacksonville—See Roads, Streets, Paving.

Fla., Miami Beach, Br. of Miami—Seawall—City has low bid at \$31,000 from Geo. Bunnell, 46 N. E. 47th St., Miami, for seawall; E. R. Neff, Engr.

La., New Orleans—Levee—Orleans Levee Bd. receives bids soon for constructing part of upper protection levee from Chalborne Ave. to Metairie pumping station, rein. conc.; R. B. Kohnke, Acting Ch. Engr. 11-24

Md., Baltimore—Empire Construction Co., 31 S. Calvert St., awarded Cont. No. 3, at \$611,950, for widening bulkhead at municipal pier development, Port Covington; involves driving piles, capping and decking over area about 1600 by 45 ft.; J. E. Greiner, Engr., Port Development Comm.

Miss., Vicksburg—Third Mississippi River Dist., P. O. Box 404, expending \$500,000 at Government Base for following: 2 steel mooring barges, \$55,000, contract let to Dubuque Boat and Boller Works, Dubuque, Iowa; 4 steel gravel barges, \$44,000, through First and Second Mississippi River Districts, Memphis, Tenn.; 14 standard wood steel barges, \$113,000, to be built at U. S. Engr. shops, Vicksburg; floating cement mixing plant, \$75,000, call for bids soon; connecting mat laying plant for conc. mats, \$50,000, call for bids soon; motor tender boat, \$15,000, call for bids soon; 6 gasoline launches, \$15,000, call for bids soon; 3 quarterboats, \$105,000, call for bids soon; also \$50,000 for repairs to existing plant; Edw. H. Dignowity, Capt., Corps of Engrs., Military Assistant. 4-12

Okla., Holdenville—Mausoleum—C. L. Quack erect \$150,000 mausoleum; fireproof, 2 stories, 80x150 ft., granite, marble; C. E. Bryan & Co., Archts., both Long Beach, Cal.; owner builds. 4-5

Tex., Houston—Port Comm., Maj. B. C. Allin, Director, receiving bids for 1-story conc. shed over city dock No. 15.

Tex., Beaumont—Wharf and Pier—See Land Development.

Tex., Houston—Luckenbach Terminals, Inc., Lewis J. Luckenbach, V.-Pres., 24 Old St., New York, construct second story to city wharf No. 13 at Port Houston.

Tex., San Angelo—Rainbow Amusement Co., capital \$20,000, incorporated; C. P. Ling, Tracy Cowell, Jimmy Taylor; leased land on Concho River; erect dance hall, bathhouses and 2 swimming pools, 108x58 ft., and 20x40 ft.; Theodore Montgomery has contract for pools.

Miscellaneous Enterprises

Ala., Birmingham—Family Service Laundry incorporated; Gar Mosley, 1415½ Tuscaloosa Ave.

Ala., Birmingham—Birmingham Reporter Publishing Co. incorporated; Oscar Adams, 601 Lucy Ave.

Ala., Birmingham—Dixie Mattress Co. incorporated; A. R. Addison, 809 39th Pl.

Ala., Birmingham—Standard Seed & Hardware Co. incorporated; J. L. Barnes, 1127 12th Ct., N.

Ark., Blytheville—C. G. Smith, J. Mell Brooks and others, interested in establishing cheese factory.

Ark., Blytheville—Barnes Dairy Products Co. considering enlarging plant.

Ark., Camden—City voted \$20,000 bonds for fire equipment. See Financial News.

Ark., Jonesboro—Chamber of Commerce negotiating with outside capitalists for milk plant.

Ark., Pine Bluff—Seamon-Dunning Corp., W. Fourth St., manufacturers automobile bodies, plans plant expansion.

Fla., Fort Myers—Baldwin Ice Cream Co. incorporated; John Baldwin.

Fla., Lake Placid—See Water Works.

Fla., Winter Haven—Bureau of Fisheries establish fish hatchery; 1000 acres water area included; deepen drainage ditch from Lake Gwynn so lake may be entirely drained; construction and operation under supervision of Fred J. Foster, Supt. of Fisheries of State Dept. of Game and Fresh Water Fish.

Ga., Thomasville—J. S. Smith and C. C. Dixon, Moultrie, acquired Chero-Cola Bottling Works, W. Jackson St.

Ky., Louisville—Polar Sweater Mills, capital \$20,000, incorporated; Ben Carmen, 726 S. 12th St.

La., Baton Rouge—Webb Tank and Tile Co., Inc., capital \$20,000, incorporated; R. C. Webb, L. S. U. Campus.

La., New Orleans—American Commercial Alcohol Co. will be formed by merger of David Berg Industrial Alcohol Co., Delaware Ave. and Tasker St., Philadelphia, Pa.; American Distilling Co., Pekin, Ill., and S. M. Mayer Distilling Co., New Orleans, La.; National City Co., New York, will finance consolidation and offer \$4,000,000 15 yr. mortgage bonds; Bauer, Pond & Vivian and William Scholl & Co. will offer limited amount of preferred stock, both New York.

La., New Orleans—Tallsheek Turpentine & Tar Co., Inc., capital \$15,000, incorporated; Henry J. Clavier, 2537 N. Roman St.

La., Shreveport—Hagood Cleaning Co., Inc., incorporated; J. F. Lout, 2506 Stonewall St.

Md., Baltimore—General Public Service Corp., Citizens Natl. Bk. Bldg., incorporated; Clarence B. Love, Joseph J. Mack, Geo. Arnold Frick; deal in plants and machinery for disposal of waste.

Md., Baltimore—Cunningham Screen Co., 825 Poplar Grove St., incorporated; James E. Tippet.

Md., Baltimore—Oil Seeds Crushing Corp., Seventh and 15th Sts., Canton, chartered; Millard C. Jones. 3-29

Mo., Kansas City—Percy Kenty Bag Co., New York, leased building; establish factory to manufacture flour bags, bags for cement plants, etc.; Richard Peek, Gen. Mgr. of local plant.

Mo., Kansas City—Pague Mfg. Co., F. L. Woodward, Mgr., 20th St., erect \$40,000 factory; 1 story; manufacture cans, pans, pails, etc.

Mo., Kansas City—Lange Creamery, Inc., 122 S. W. Blvd., increased capital, \$22,500 to \$125,000.

Mo., Springfield—Lee Savage Paint & Glass Co., 319 E. McDaniel St., erect \$35,000 building, 412 E. McDaniel St.; fireproof, 3 stories and basement.

Mo., St. Louis—St. Louis Ornamental Stone Mfg. Co., 4350 California St., incorporated; Meyer Lewis.

Mo., St. Louis—General Electric Co., Schenectady, N. Y., approved 2 ordinances passed by Bd. of Aldermen to clear 155 acre site, Bircher St. and Goodfellow Ave., for proposed \$5,000,000 plant. Gerard Swope, Pres., wires: "We have no plans at present for proceeding with erection of factory." 11-17-27

Mo., St. Joseph—Aunt Jemima Mills, 202 S. Second St., subsidiary of Quaker Oats Co., 80 E. Jackson Blvd., Chicago, Ill., plans plant addition.

Mo., St. Louis—Construction and Engineering, etc.—C. A. Moreno Co. incorporated; C. A. Moreno, Synd. Tr. Bldg.

Mo., St. Louis—Roosevelt Construction Co. incorporated; Ben P. Lerner, 5900 Enright St.

N. C., Charlotte—J. A. Gardner, 211½ S. Tryon St., erect \$22,000 bakery.

N. C., Charlotte—Cleaning—Valeteria Co., capital \$100,000, incorporated; C. Dick Kirkpatrick, Blandwood Apts.

N. C., Greensboro—W. J. Beaman, 604 Jefferson Standard Bldg., plans establishing plant for manufacturing wood frame insect screens. See Want Section—Machinery and Supplies.

N. C., Winston-Salem—Piedmont Tile and Marble Co., capital \$30,000, incorporated; J. J. Harris, Wachovia Bk. Bldg.

N. C., Stoneville—Thrasher Robertson Mfg. Co., J. M. Thrasher, plans establishing plant to manufacture underwear, cushions, etc.

N. C., Wilmington—Nitrate Agencies Co., subsidiary of W. R. Grace & Co., Murchinson Bldg., will probably rebuild burned plant.

Okla., Lawton—M. B. Scott receiving bids for \$18,000 bakery; brick, rein. conc., 50x120 ft., 1 story; Guy Dale, Archt.

Tenn., Union City—Union City Raincoat Co. incorporated; A. Brown, Robt. Bell.

Tex., Amarillo—Tri-State Wheel & Mfg. Co. incorporated; J. J. Crume, Amarillo Bldg.

Tex., Austin—State Bd. of Health, Dr. W. A. Davis, Sec., erect \$25,000 chemical laboratory.

Tex., Buda—Buda Cheese Co., incorporated; John R. Howe, W. M. Woods, G. A. Moore.

Tex., Cameron—Cameron Commercial Club interested in establishing cheese factory in Milam County.

Tex., Corpus Christi—Corpus Christi Tent and Awning Co., incorporated; F. S. Bonham, 2004 Leopard St.

Tex., Dallas—Southwest Heating Co., Inc., capital \$20,000, incorporated; Wm. M. Cramer, 3710 Oak Grove St.

Tex., Georgetown—Chamber of Commerce interested in establishing cheese factory.

Tex., Hereford—Clinton Ezell erect laundry.

Tex., Houston—Southern Engine and Pump Co., 615 Washington St., increased capital, \$40,000 to \$100,000.

Tex., Longview—Atkinson Canning Co. erect pickle and catsup plant; 48x88 ft., conc. floors, iron roof; owners build. See Want Section—Machinery and Supplies.

Tex., Orange—Spears Dairy, Inc., 1010 Boundary St., E. G. Spears, Pres., Houston, plans establishing creamery plant.

Tex., Plainview—Hale County Dairy Assn. interested in erection of \$20,000 creamery.

Tex., San Antonio—Colonial Cake Co., 427 Laredo St., let contract to Geo. Steubben for 1-story addition; brick, rein. conc., 87x36 ft.; R. F. Neumann, Archt., 921 W. Summitt Ave. 4-26

Tex., San Antonio—San Antonio Broom Mfg., Inc., 1401 W. French St., erect building, Tampico and Canal Sts.; fireproof, 40x140 ft.; Will N. Noonan Co., Archt., Bldrs. Exchange; C. C. Dishman, Contr., 305 Mary St.

Tex., San Antonio—Brown Candy & Cracker Co., W. M. Marvin, Local Mgr., 2523 Buena Vista St., plans erecting \$350,000 factory, El Paso and Medina Sts.; brick, conc., 125,000 sq. ft. floor space.

Tex., San Antonio—Beacon Poultry Products Co., capital \$25,000, incorporated; Larkin F. Price, Alamo Natl. Bank Bldg.

Tex., San Antonio—W. L. Richter, 148 Elsmere St., erect bakery; brick, tile; G. J. Stuebben, Contr., 510 Dawson St.

Tex., Taylor—Taylor Hardware Co., capital \$100,000, incorporated; J. J. Brewster, C. C. Hamilton, R. L. Shoof.

Va., Petersburg—Beam-O-Lite Co., capital \$25,000, incorporated; S. M. Owen, 120 Cameron Ave.

Va., Richmond—Carter Construction Co., capital \$50,000, incorporated; Alfred W. Turner, Ashland; W. E. Carter, 2001 Maplewood Ave., Richmond.

Motor Bus Lines and Terminals

Ala., Tuscaloosa—V. C. Hicks, Tuscaloosa, applied to Alabama Public Service Comm. to operate bus line from Northport to Holt via Tuscaloosa and Alberta City.

Ky., Pikeville—Pikeville-Williamson Bus Co., incorporated; T. M. Stratton, John Scott, Jr.

Maryland—Public Service Comm. granted permission to Montgomery Bus Lines, Inc., Robt. G. Hilton, Pres., Rockville, to do intrastate business, and in addition between Gaithersburg-Washington Grove and District Line at Wisconsin Ave. via Rockville and Bethesda.

Motor Cars, Garages, Filling Stations

Ala., Ensley—Dr. H. A. Haines erect garage; brick, steel, 1 story, 50x125 ft., asphalt roof.

Ala., Mobile—Blacksher-Reece Motor Co., 61 S. Water St., erect building, St. Francis and Lawrence Sts.

Ark., El Dorado—Griffin Bros. erect \$50,000 garage, S. Jefferson Ave.; 120x300 ft., brick, steel.

Ark., El Dorado—Mrs. A. Romel, 442 N. Washington St., erect \$13,000 garage, N. West Ave.; brick, rein. conc., 1 story and basement, 60x150 ft.; Thompson & Hunter, Archts., Armstrong Bldg.; owner builds.

Ark., Springdale—Fletcher Motor Co. rebuild burned building; hollow tile, 50x100 ft.

Fla., Eustis—Lake Motors, Inc., let contract to C. Z. Osborne for \$15,000 building; 1 story, conc. floors. 4-19

Fla., Milton—Santa Rosa Auto & Supply Co., Inc., chartered; D. Faircloth, Bessie Parker.

Fla., Panama City—Bay Motors, Inc., incorporated; W. L. Folkes, G. T. Edison.

Ga., Atlanta—Forsyth Street Garage Corp. has low bid at \$48,000 from Smith & Williams, Red Rock Bldg., to erect garage, Forsyth and Hunter Sts.; 2 stories and basement, 90x90 ft., rein. conc., brick, tile, tar and gravel roof; Pringle & Smith, Archts., Norris Bldg.

Ga., Atlanta—Indiana Truck Corp., Marion, Ind., merged with Brockway Motor Truck Corp., Cortlandt, N. Y., has tentative plans for assembly plant with minimum output 1000 Indiana trucks annually; company assembles standard parts manufactured by other firms; construct 2 additional assembly plants to serve other sections, all to be in operation before end of year.

Ky., Danville—Blue Brass Taxi Garage Co., capital \$25,000, incorporated; H. A. Richardson, Geo. C. Harmon.

Ky., Lexington—Danville Automotive Parts Co., incorporated; J. H. Wombwell, 800 Sunset Dr.

Ky., Louisville—Edw. J. Bosler, Tyler Hotel, receive bids about May 15 for \$350,000 garage and recreation building, Third and Guthrie Sts.; 165x300 ft., 3 stories and basement; rein. conc., struct. steel, cut stone and brick exterior, comp. roof; E. T. Hutchings, Archt., 418 S. Fifth St. 4-26

Ky., Louisville—Nuway Auto Refinishing Co., incorporated; W. Culver Vaughan, 1907 Avery Ct.

La., Delhi—Thompson Chevrolet Co., Inc., incorporated; J. R. Thompson, C. C. Thompson.

La., Monroe—A. L. Goodson, 2808 Gordon Ave., erect \$12,000 building; brick, 1 story, 69x109 ft.; J. W. O'Brien, Archt.

La., New Orleans—Auto Electric and Supply Co., capital \$50,000, incorporated; Percival Stern, 1734 Palmer Ave.

La., Shreveport—B. W. Marston, 1015 St. Vincent Ave., let contract at \$11,994 to H & B Construction Co., Rleou Breu Bldg., for service station and warehouse; brick, 1 story, 40x120 ft.; Clarence W. King, Archt., Giddens-Lane Bldg.

Md., Baltimore—Baltimore Coach Co., 2 St. Paul St., erect automobile storage and repair shop, 120 W. Fayette St.

Md., Baltimore—Getzel Zilber, 1700 McCulloh St., erect 1-story brick service station, 1850-54 McHenry St.

Md., Cumberland—Cumberland Garage, Inc., 217 N. Mechanic St., incorporated; Emanuel Bernstein.

Md., Pikesville, Br. of Baltimore—Baltimore County Oil Co., Seven Mile lane and Reisterstown Rd., incorporated; Chas. L. Hehl.

Miss., Hattiesburg—A. K. McInnis, 425 W. Pine St., erect \$25,000 garage, Hardy St.; E. C. Hearon & Sons, Archts., 201½ W. Pine St.; Oden & Glen, Contrs.

Miss., Indianola—Pitts Motor Co., capital \$25,000; W. T. Pitts.

Miss., Pascagoula—Frellsen Motor Co., Inc., incorporated; J. Paquette, R. M. Frellsen.

Miss., Vicksburg—Keith Williams Motor Co., 800 South St., incorporated; Keith Williams.

Mo., Cape Girardeau—Louis Hecht and Chas. Miller let contract to Gerhardt Construction Co. for 100-car storage garage; 116x84 ft., brick, fireproof, conc. floors; Reither & Lindsay, Archts.

Mo., Clarence—Clarence Auto Co. incorporated; Otto F. Matthews, Macon; Elber B. Yoeman, Clarence.

Mo., Fairmount—John C. Lawrence, Archt., Commercial Bldg., drew plans for \$90,000 garage; 1 story, 115x125 ft.

Mo., Joplin—N. D. Mardick and Geo. L. Schier, 3029 Joplin St., erect tire and battery service station; brick, 1 story, 40x100 ft., conc. floors, Spanish tile roof; C. F. Stange, Contr.

Mo., Moberly—Keystone Service Co. erect \$10,000 garage; hollow tile, steel frame and trusses, 1 story, 50x120 ft., comp. roof; Wisdom Bros., Contrs. See Want Section—Machinery and Supplies.

Mo., St. Louis—H. J. Karr, 6424 Marmaduke St., has contract for \$30,000 garage, Clayton and Graham Aves.; brick, 1 story.

Mo., Springfield—Pickwick Stage Lines, Inc., Tom Morgan, V-Pres., Los Angeles, Calif., considering erecting \$20,000 garage, Kimbrough Ave.

N. C., Charlotte—Pyramid Motor Co., 531 East Ave., erect 2-story addition to building, E. Trade St.

Okla., Oklahoma City—C. S. Owners erect \$10,000 filling station; brick, comp. roof, 1 story.

Tenn., Chattanooga—Stewart Storage Corp. erect filling station, Manufacturers Rd. and Cherokee Blvd.

Tenn., Chattanooga—Gulf Refining Co., Main and Belt Rys., erect \$10,000 filling station, Fourth and Walnut Sts.; fireproof.

Tenn., Jackson—McEwen Motor Co., capital \$50,000, incorporated; W. P. Moss, G. L. Yarbo, H. L. Wilson.

Tenn., Memphis—Wyatt C. Hedrick, Archt., First Natl. Bk., Fort Worth, Tex., and Post-Dispatch Bldg., Houston, Tex.; building company called Third & Madison Co.; office bldg., Madison Ave. and Third St. and probably 3-story fireproof garage adjoining. (See Buildings Proposed—Bank and Office.)

Tenn., Union City—Clarence Reynolds erect filling station, Church and Depot Sts.; brick veneer, 1 story, 20x20 ft.; C. C. Conn, Contr.

Tex., Alpine—W. P. Hinson erect garage; 30x130 ft., 1 story, cement floors; A. W. Fulcher, Contr. See Want Section—Building Material and Equipment.

Tex., Corpus Christi—Port Trucking Co., Furman Bldg., erect garage and filling station, 2402 Agnes St.; 50x140 ft.

Tex., Dallas—Acme Auto Top and Body Works, Inc., incorporated; Henry Daross, 1210 Caldwell St.

Tex., Dallas—Auto Battery and Electric Co. incorporated; David W. Hardy, Rys. Bk. Bldg.

Tex., Dallas—Kearney Oil Co. erect building, Live Oak and Liberty Sts.; stone trim, blue tile roof; F. J. Woerner & Co., Central Bk. Bldg., supervise construction.

Tex., Dallas—Reo Motor Car Co. of Texas, 2111 Main St., J. Lemons, Pres., erect \$150,000 building, N. Hardwood St.; ornamental brick, 100x120 ft., 2 stories; Flint & Broad, Archts.; J. O. Everett, Contr., both Melba Bldg.

Tex., Fort Worth—C. M. Davis, Joseph Bldg., erect \$15,000 filling station, 901 Taylor St.

Tex., Houston—Bert M. Castle, 2110 Summer St., let contract to W. J. Goggan, Electric Bldg., for garage, 2011 Rosewood St.

Tex., San Antonio—Humble Oil and Refining Co., Humble Bldg., Houston, let contract to J. E. Dickey, 216 Eleanor St., for 2 filling stations; 18x32 ft., and 18x57 ft.; brick, stucco, tile trim, 1 story, conc. floors. 4-26

Tex., San Benito—B. I. Kowalski erect service station; hollow tile, stucco, rein. conc., brick, 1 story; W. D. Van Sclen, Archt., Brownsville.

Va., Danville—Motor Service Corp., capital \$25,000, incorporated; G. K. Linkous, 655 Main St.

Va., Norfolk—Roy E. Hughes, Dentrils Bldg., Washington, D. C., acquired Casterton Tire & Rubber Co.; changed name to Norfolk Tire & Rubber Co.

Railways

La., New Orleans—New Orleans Public Belt, A. J. O'Keefe, Pres., Municipal Bldg., applied to Comm. Council for approval to issue \$1,000,000 bonds for extensions and improvements.

Mo., St. Louis—St. Louis-San Francisco Ry. Co. applied to Interstate Commerce Comm. for authority to offer \$6,000,000 4% equipment trust certificates through Blair & Co., New York; E. H. Rollins & Sons, Boston; Blyth, Witter & Co., New York, and Janney & Co., Philadelphia; proceeds to be used for purchase of 1500 steel box cars, 1500 steel hopper cars, 500 automobile cars, 500 flat cars, 6 dump cars, 15 baggage and mail cars, 5 baggage cars, 5 gas and electric motor cars and 2 ditchers; at cost of \$8,214,000.

Mo., St. Louis—St. Louis Electric Terminal Railway Co., 3729 N. Broadway (McKinley lines), controlled by North American Light and Power Co., 231 S. La Salle St., Chicago, Ill., Studebaker and Insull interests, applied to Bd. of Aldermen for 50-yr. franchise; plan \$1,000,000 terminal building, High St. and Lucas Ave.; 8 stories; probably lease 10-story Carleton building, Twelfth Blvd. and Washington Ave., for passenger station and freight depot; establish underground railway terminal; eliminate grade crossings; electrically operated; tube will be 21 ft. underground; underground yard have capacity of 120 cars.

Tex., Beaumont—Waco, Beaumont, Trinity & Sabine Ry. Co., R. C. Duff, Pres., Houston, plans constructing line from Waco through Beaumont to Port Arthur and develop 14,000 acres Jefferson County land. See Land Development.

Tex., Lane City—Gulf, Colorado and Santa Fe Ry. Co., F. Merritt, Ch. Engr., Galveston, applied to Interstate Commerce Comm. for authority to acquire control by lease of 35 mi. extension of Cane Belt R. R. between Lane City and connection with its line near Thompson.

Va., Suffolk—James E. Cuthbert and Petersburg and Richmond capitalists making preliminary survey of 17-mi. railroad line and terminals to connect Suffolk with Southport; construct pier at Southport.

Railway Shops and Terminals

Mo., St. Louis—Atchison, Topeka and Santa Fe Ry. Co., H. W. Wagner, Ch. Engr., Topeka, Kan., filed petition with Bd. of Public Service to establish freight warehouse and terminal; expend about \$345,000.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Birmingham—City Comm., Eunice Hewes, receives bids May 8 to pave 19 streets and install sanitary sewers, \$203,555; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm. receives bids May 29 for 9 blocks curbing, guttering, cement sidewalks, asphalt on conc. paving, etc.; A. J. Hawkins, City Engr.

Ala., Birmingham—Jefferson County Bd. of Revenue receives bids May 22 for .9 mi. black base, Warrenite bitulithic top, Smyer Road Extension; 9500 sq. yd. paving; C. J. Rogers, County Highway Engr.

Ala., Birmingham—Jefferson County Bd. of Revenue receives bids soon for 5 roads: ½ mi. Roebuck Golf Course Highway; Waddell-Crestline Heights; extend Mulga-Bessemer road, end of present pavement to Parkwood road; Leeds road, through city limits of Leeds; Old Stoups Mill road, city limits of Birmingham to State Highway.

Ala., Mobile—City considering paving N. Water and N. Commerce St.

Ala., Mobile—Mobile County plans \$5,000,000 for 22 roads, totaling 193 mi., and conc. bridges. 3-29

Ark., Brinkley—City plans \$270,000 to pave all streets, forming improvement dist. See Financial News.

Ark., El Dorado—State Highway Comm., Little Rock, plans highway between El Dorado and Little Rock; bridge over Ouachita River, Callion, Union County.

Ark., Van Buren—State Highway Comm., Little Rock, let contract May 17 for 16½ mi. conc., Little Rock-Fort Smith road, Crawford County.

D. C., Washington—Dist. Commrs. receive bids May 7 to re-surface various streets with sheet asphalt or alternate.

D. C., Washington—Dist. Commrs. receive bids May 8 to re-surface streets by heater method; May 9 to grade, improve and pave with conc. or alternate, streets, roads, avenues.

Fla., Fort Pierce—State Road Dept., Tallahassee, completed survey for State Road 8, Fort Pierce to Okeechobee.

Fla., Jacksonville—C. V. Imeson, Engr., Clark Bldg., will soon complete preliminary plans for conc., sheet piling and sidewalks on Hogan Creek; 2½ mi. 6-in. sheet piling; 4000 bbls. cement.

Fla., Lake Placid—S. E. Sims, Town Mgr., plans street improvement. See Financial News. 4-26

Fla., St. Augustine—St. Johns County Comm. plans hard surfacing Picolata section of Mill Creek road.

Fla., Tavares—State Road Dept., Tallahassee, plans letting contract in June for Leesburg-Tavares road, Lake County.

Ga., Atlanta—Fulton County Comm. considering widening and surfacing Courtland St., Forrest to North Ave.

Ga., Ringgold—State Highway Bd., John N. Holder, Chmn., Atlanta, receives bids May 30 for Catoosa County highway, Whitfield County line to Tennessee State line.

Ga., Talbotton—State Highway Dept., East Point, receives bids in May to pave Talbotton road.

Kentucky—State Highway Comm., Frankfort, receives bids May 31 for 24 roads, bridge: Boone County—5.6 mi. grade, drain, Warsaw-Florence; Bullitt County—11.3 mi. surfacing, Shepherdsville-Lebanon Junction; Calloway-Graves Counties—11.7 mi. surfacing, Murray-Mayfield; Calloway-Marshall Counties—14.6 mi. Murry-Eggers Ferry; Christian-Todd Counties—12.8 mi. Hopkinsville-Guthrie; Fleming County—10.4 mi. Flemingsburg-Hillsboro; Floyd County—9.4 mi. grade, drain, Allen-Lackey (Beaver Creek) road; Fulton County—1 mi. surface, Fulton-Tennessee State line; Gallatin County—4.8 mi. grade, drain, Warsaw-Florence; Green-Adair Counties—9.5 mi. grade, drain, Greensburg-Columbia; Henry-Trimble Counties—10.1 mi. surface, Campbellsburg-Bedford; Johnson County—9.9 mi. surface, Paintsville-Louisia (Mayo Trail) road; 8.9 mi. Paintsville-Prestonsburg (Mayo Trail) road; Lawrence County—18.6 mi. Louisa-Catlettsburg (Mayo Trail) road; 19.4 mi. Louisa-Paintsville (Mayo Trail) road; Lee County—12.3 mi. Beattyville-Irvine; Letcher County—10.1 mi. Whitesburg-Jenkins (Mayo Trail) road; 12.2 mi. Whitesburg-Hazard (Ky.-Va.) road; Logan County—9.4 mi. grade, drain, surface, Russellville-Elkton; McCracken-Ballard Counties—12.8 mi. surface, Paducah-Lovelaceville; Pike County—8.9 mi. Pikeville-Prestonsburg; 19.9 mi. Pikeville-Jenkins (Mayo Trail) road; Scott County—7.2 mi. Georgetown-Paynes Depot-Midway road; Warren County—2.9 mi. Bowling Green-Russellville; Hopkins-Muhlenberg Counties—Pond River Bridge, Hopkins-Muhlenberg County line, Nortonville-Greenville road; 100-ft. steel span, conc. floor, superstructure; conc. approach spans and substructure; two 50-ft. conc. spans, rein. conc. piers and abutments.

Kentucky—State Highway Dept., Frankfort, received low bids for 12 roads: Barren County—7.301 mi. 18-ft. traffic bound macad. Glasgow-Scottsville road, Raymond Contracting Co., Bowling Green, \$35,670; 9.206 mi. 14-ft. traffic bound macad. Glasgow-Edmonton, John R. Edwards, Boston, Ky., \$36,774; Breathitt County—11.333 mi. grade, drain, Jackson-Hazard, Codell Construction Co., Winchester, \$185,345, first-class pipe, conc. substructure; Perry County—9.299 mi. grade, drain, Hazard-Jackson, Codell Construction Co., \$199,520, first-class pipe, conc. substructure; Butler County—9.445 mi. 16-ft. bank gravel surface, Morgantown-Hartford, H. Latta Smith, Sturgis, Ky., \$30,450; Caldwell-Hopkins Counties—10.788 mi. 16-ft. traffic bound macad. surface, Princeton-Dawson Springs, J. D. Eli & Co., Dawson Springs, \$43,949; Scott County—416 mi. 18-ft. rein. conc., Georgetown-Williamstown, Codell Construction Co., \$257,665; Harlan County—8.666 mi. grading, draining, Harlan-Whitesburg, Sutherland Bros., Clintwood, Va., \$271,498, first-class pipe, 8.625 mi. grade, drain, Harlan-Whitesburg, Harrison-Reynolds Co., White Plains, Tenn., \$206,288, first-class pipe;

Henderson County—9.661 mi. 18-ft. traffic bound macad. Henderson-Owensboro, Taylor & Johnson, Lewisport, \$46,057; Washington-Marion Counties—7.488 mi. 18-ft. traffic bound macad. surface, Springfield-Lebanon, Forrest Ward, Lebanon, \$37,876.

Kentucky—State Highway Comm., Frankfort, receives bids May 21 for 232.40 mi. bit. surface treatment on 40 roads in Anderson, Bath, Bell, Bourbon, Boyd, Boyle, Bracken, Bullitt, Carter, Fayette, Garrard, Greenup, Hardin, Hart, Harrison, Larue, Lewis, Marion, Meade, Mercer, Nelson, Owen, Scott, Shelby, Spencer, Washington, Woodford Counties.

Ky., Eddyville—Lyon County plans \$200,000 to improve main highways connecting Eddyville with Dawson, Princeton and Paducah. See Financial News. 3-22

Ky., Fulton—Thos. H. Chapman, City Clk., probably receive bids May 20 on \$175,000 to \$200,000 street improvement, residential section; Black & Veatch, Engrs., Mutual Bldg., Kansas City, Mo.

Ky., Georgetown—City plans repairing, curbing and guttering North and South Broadway and West Main St.

Ky., Richmond—State Highway Comm., Frankfort, let contract in June to surface Red House road; grade and drain last section Bosworth trail.

Ky., Shelbyville—City may let contract about June 1 for 3500 sq. yd. conc. paving, McGrouty Ave.; 3000 sq. yd., North Fourth St.; 1250 sq. yd. Caldwell St.; 2300 sq. yd. Locust St.

La., Amite—C. M. Nixon, Mayor, plans receiving bids to pave Oak St. extension to Duncan, and blocks around courthouse; East Railroad Ave. and East Olive St.

La., Lake Charles—City Council receives bids May 7 for sidewalks on Milligan and Helen St.

La., Vinton—Athan Perry, Mayor, plans \$33,000 street paving and graveling. See Financial News. 4-12

Maryland—State Roads Comm., Baltimore, receives bids May 15 for 8 roads: Washington County—1 mi. macad. resurface, Williamsport toward Lappans, Cont. W-55; Frederick County—1 mi. conc. shoulders, macad. resurfacing, Thurmont toward Sabillasville, Cont. F-50-A; Calvert County—1.34 mi. gravel, Lusby & Sollers, Cont. C-32; Caroline County—1 mi. conc., Ridgely to Bridgetown, Cont. Co-47; Worcester County—2 mi. conc., Snow Hill to Public Landing, Cont. Wo-52; Allegany County—1.09 mi. conc. shoulders, Naves Cross Roads, National Pike to Bedford road; along Braddock road, Cumberland to Allegany Grove, Cont. A-52; Montgomery County—3.1 mi. conc. shoulders, Norbeck to Olney, Cont. M-10-D; Somerset County—7.47 mi. conc. shoulders, Pocomoke to Westover, Cont. S-7-A.

Maryland—State Roads Comm., Baltimore, received low bids for 5 roads: Frederick County—68 mi. conc., Liberty road, point east of Unionville to Unionville, Thomas, Bennett & Hunter, Westminster, \$17,253; Baltimore County—4.05 mi. conc. Jacksonville to Harford County line; Sunnybrook toward Warren, H. T. Campbell Sons Co., Towson, \$87,653; 1.87 mi. conc. shoulders, Belair road, Overlea to Putty Hill, Ward & O'Connell, New Amsterdam Bldg., Baltimore, \$42,350; Anne Arundel County—6.1 mi. conc., old Annapolis road, north of Glenburnie to Dorsey, Christliff & Ensey, 1625 Ridgely St., Baltimore, \$107,720; Cecil County—1.50 mi. conc. Reed's Corner toward Grove Neck, P. D. Phillips & Bro., Salisbury, \$34,398. 4-19

Md., Baltimore—Bd. of Estimates authorized \$42,100 to pave 7 streets, Frisby, Spring, etc.; approved plans to widen Charles St., 15 ft., North Ave. to Twenty-sixth St.; open, widen and grade 4 streets and avenues, Callaway Ave., Thirty-fifth St.; Nathan L. Smith, Highways Engr.

Md., Baltimore—Bd. of Awards receives bids May 9 to grade, curb and pave with 9300 sq. yd. sheet asphalt on conc. base, streets in Cont. 459; Nathan L. Smith, Highways Engr.

Md., Cumberland—Dr. T. W. Koen, Mayor, receives bids about June 1 for \$50,000 street paving.

Miss., Greenwood—City Council approved plans to grade and gravel 9 streets, grade, gravel, curb and gutter 8 streets.

Mo., Carthage—City plans receiving bids soon to resurface with Amesite, Main St., Central Ave. to Fifth; E. S. Glenn, City Engr.

Mo., Joplin—City considering paving Wall St., Tenth to Twenty-first; O. P. Mahoney, Commr. of Streets.

Mo., Kirkwood—W. J. Donworth, City Clk., receives bids May 7 for 1,532 cu. yd. excavation, 7,429 sq. yd. pavement, 5 inlets, etc.

Mo., St. Joseph—Bd. of Public Works received low bids from Sayles-Bridgford Co., \$12,755, to pave Nineteenth, Twenty-second and Broadway.

Mo., St. Louis—Bd. of Public Service receives bids May 8 to improve streets in Dist. No. 3111 to 3124, inclusive; W. W. Horner, Engr.

Mo., St. Louis—Bd. of Public Service receives bids May 15 for street improvements.

Mo., St. Louis—Bd. of Public Service considering widening Market St., Third and Walnut diagonally to Sixth and Market; from there, widen from 60 to 100 ft. to Vandeventer St.

Mo., St. Louis—Bd. of Public Service receives bids May 8 to improve 7 streets, rebuild 2 streets; lay walkways.

Mo., St. Louis—Bd. of Public Service received low bids, \$388,659, to pave 24 streets: Crean & Scott Construction Co., Chouteau Tr. Bldg.; C. A. Mareno; Herman Construction Co.; Independent Asphalt & Construction Co., Chemical Bldg.; Bridges Asphalt Paving Co.; M. L. Flynn Paving Co.

Mo., Trenton—Street Committee of City Council, plan grading, ditching and reconditioning dirt streets.

N. C., Charlotte—City Commrs., Mayor Redd, plans calling bids in month for \$1,000,000 street paving. See Financial News.

N. C., Hendersonville—Henderson County Road Bd., A. C. Justus, Sec., receives bids May 11 to grade and surface 3.5 mi. Crab Creek road, Hendersonville to Pleasant Hill Church; 21,000 cu. yd. excavation, 26,900 sq. yd. 6-in. loose stone base, 2-in. asphaltic surfacing, or 6-in. conc. slabs; C. B. Turner, Engr.

Okla., Ada—Lee Daggs, City Clk., considering paving Sixteenth and Seventeenth St., Mississippi to Francis Ave.

Okla., Blackwell—City Commrs. considering paving and installing drainage system on Hill, Adams, Carlton St., Hapwebb Addition.

Okla., Oklahoma City—E. M. Fry, City Mgr., received low bid from Western Paving Co., Trades Natl. Bldg., to pave Reno Ave., Western to Douglas Ave.; plans 2 paving districts: Jordan Ave., Fourth to Sixth; Sixth St., Jordan to Kelham.

South Carolina—State Highway Comm., Columbia, received low bids for 7 roads, 5 bridges, culvert and underpass: Orangeburg-Lexington Counties—24.9 mi. Route 6, Orangeburg to Swansea, W. J. Bryson Paving Co., Columbia, \$480,360; York County—10.8 mi. Route 5, Harwell Brothers, Rome and Gray St., Tampa, Fla., \$210,553; 9.2 mi. Route 5, Rock Hill to Chester County line, Harwell Brothers, \$175,400; Chesterfield County—6 mi. grading, sand-clay surface, Route 95, W. J. Bryson Paving Co., \$40,410; 5 mi. grading, clay bound macad. surface, Route 18, end of present work to Long Creek, C. M. Lyle Construction Co., Gainesville, Ga., \$108,964; Spartanburg County—7.5 mi. top soil surface, Route 10, Woodruff to Enoree, Cooper & Brooks, Ninety-Six, \$18,338; Chester County—9.4 mi. grading, Route 21, Chester to York County line, McKenzie & Johnson, Abbeville, \$35,578; Greenville-Pickens County—rein. conc. bridge over Saluda River and Georges Creek, Greenville to Easley, H. E. Ragsdale, 397 Morgan Ave., Macon, Ga., \$31,056; Greenville County, 2 treated timber, 2 treated timber and steel, Route 20, Gantt to Pelzer, Rutherford Construction Co., Forest City, N. C., \$16,743; Pickens County—rein. conc. culvert, Route 14, Pickens to Liberty, Southern Concrete Products Co., Anderson; Spartanburg County—rein. conc. underpass, Route 29, under Piedmont & Northern Ry., L. S. Mitchell, Walterboro, \$8,748. 4-19

S. C., Chester—State Highway Comm., Columbia, plans grading, draining, hard surfacing 2 roads in Chester: 11.3 mi. Route 16, Fairfield County line to southern city limits, Chester; 9.9 mi. Route 7, northeastern city limits, Chester, to York County line; Chester County deposited \$600,000 with Dept. to cover construction.

S. C., Greenville—Greenville County Road Surfacing Comm., plans \$400,000 highway improvement; plans selling bonds.

S. C., Walhalla—State Highway Comm., Columbia, received low bid from C. M. Lyle Construction Co., Gainesville, Ga., \$108,964, for 5.010 mi. grading, clay bound macad. surface, Route 8, Proj. 635-A to Long Creek. 4-19

Tenn., Crossville—Cumberland County and Dept. of Highways and Public Works, Nashville, plan \$10,000 for 7 mi. grading and stone surfacing road from Crossville, via Grassy Cove to Spring City, Rhea County.

Tenn., Memphis—D. C. Miller, City Clk., plans receiving bids to improve 13 streets.

Tenn., Nashville—Davidson County Highway Comm. receives bids May 12 for 2 macad. base, asphalt-penetration surface roads, connecting Old Hickory Bridge, under construction over Cumberland River, with Gallatin road on west, and Hadley's Bend on east; Western section—2 mi. road, from Gallatin road, via Sweetbrier Lane to bridge approach; Eastern section— $\frac{3}{4}$ mi. from eastern approach to Hadley's Bend road, or Concrete Blvd.; 20-ft. road, 6-in. shoulder on each side; \$65,000.

Tenn., Paris—City plans streets in Maplewood Section: asphalt, widen and lay conc. sidewalks, McNeill St.; asphalt and conc. gutter East Washington St.

Texas—State Highway Comm., Austin, receives bids in May for 14 roads: Austin County—14.185 mi. grading, bridges, from Brazos River through Road Dist. 4, to Mill Creek; Bexar County—5.150 mi. grading, bridges, surfacing, Highway St. Sayers to Wilson County line; Hopkins County—8.90 mi. conc., Highway 1, east of Sulphur to Sta. 508 plus 50, \$240,000; 8.30 mi. conc., Highway 1, Sta. 508 plus 50 to Franklin County line, \$230,000; Montgomery County—17 mi. grading, bridges, Highway 35, Liberty County line to Harris County line, \$120,000; Baylor County—6.489 mi. $\frac{3}{4}$ -in. bit. macad. surface, Highway 24, point west of Seymour to Knox County line; Taylor County—14.118 mi. grading, bridges, Highway 30, Abilene south; Knox County—13.181 mi. grading, bridges, Highway 30, Baylor County line to Haskell County line; Grayson County—7.198 mi. Highway 6, Collin County line to Sherman; Ellis County—3.765 mi. conc., Highway 6, Waxahachie south to Forrester; Grimes County—6.152 mi. conc. Highway 6, point south of Navasota to Navasota River, \$179,500; Nolan County—9.098 mi. caliche base, bit. macad. top, Highway 7, Roscoe to Scurry County line; Jones County—15.265 mi. gravel and stone base, bit. top, Highway 18, Shackelford County line to Stamford; Jackson County—4.153 mi. grading, bridges, Highway 12, Wharton County line to Ganado.

Texas, Abilene—Taylor County, Tom K. Eplen, Judge, plans 10.380 mi. conc. Highway 1, Abilene, west, \$290,000.

Texas, Bellville—Austin County Comms. Court may create Road Dist. 6, from point 5 mi. west of Bellville to Fayette County line; expend \$325,000 to improve Highway 73-A, and build lateral roads in Dist. See Financial News.

Texas, Burnet—Burnet County, O. B. Zimmerman, Judge, plans \$35,000 roads in Dist. 4. See Financial News. 3-19

Texas, Carthage—Panola County, J. G. Strong, Judge, plans 6.679 mi. grading, bridges, Highway 64, Sabine River to Deberry.

Texas, Crystal City—City plans \$150,000 street improvements. See Financial News.

Texas, Dallas—Dallas County, F. H. Alexander, Judge, preparing plans for 155 mi. 20 to 40 ft. conc. roads, Dist. 1; \$6,950,000 available. 4-12

Texas, Edinburg—Hidalgo County Comms. Court, L. E. Tinkler, Auditor, receives bids May 7 to grade, drain and pave 5 roads, Dist. 6: 7.9 mi. McColl road; 5.8 mi. Tenth St. road; 7.8 mi. West McAllen; 8 mi. Ware road; 7.1 mi. Taylor road; P. S. Devine, County Engr.

Texas, Edinburg—Hidalgo County, Mission Dist., Road Dist. 5, plans 60 mi. paved roads, \$1,500,000. See Financial News. 4-5

Texas, Houston—City, W. A. Moore, Sec., considering paving W. Main from Main to Greeley, \$10,500; J. C. McVea, Engr.

Texas, Houston—H. L. Washburn, Harris County Auditor, receives bids May 7 to gravel Grant Road.

Texas, Houston—City, W. A. Moore, Sec., considering paving Yale St., Sixth to Twenty-second.

Texas, Houston—City, W. A. Moore, Sec., plans receiving bids soon to pave 42-ft. Shepherd Drive, Buffalo Bayou Drive to Richmond road; J. C. McVea, City Engr.

Texas, Laredo—Webb County, A. Winslow, Judge, plans 8.344 mi. grading, bridges, conc. paving, Highway 12-A, Laredo-Hebbronville road.

Texas, Martin—Falls County, Walter S. Hunnicut, Judge, plans 6.839 mi. gravel base, bit. top, Highway 108-A, Highway 44 to Barclay, \$106,000.

Texas, Mercedes—City considering widening Second St. 9 blocks, west bridge to Ohio Ave.

Texas, San Angelo—City Comm. plans paving West Twohig Ave., full width, Koenigheim to Abe St.; plans receiving bids to pave West Twohig Ave., with park in center, Abe to David St.

Tex., San Antonio—Fred Fries, City Clk., receives bids May 7 to improve Marshall St., Cameron to Flores; I. Ewig, City Engr.

Tex., Seymour—Baylor County, J. T. St. Clair, Judge, plans 6.489 mi. $\frac{3}{4}$ -in. bit. macad. surface, Highway 24, point west of Seymour to Knox County line, \$58,000.

Tex., Sherman—State Highway Comm., Austin, receives bids in May for 7.097 mi. grading, bridges, Highway 6, Denison to Sherman, Grayson County.

Tex., Sarita—State Highway Comm., Austin, will build 42 mi. Hug-the-Coast Highway through Kenedy County, from southern terminus at Riveria, to Highway 96, Willacy County.

Tex., Wheeler—Wheeler County plans \$1,000,000 road building; Pave State Highway 4, north and south; U. S. Highway 66, east and west; \$200,000 for lateral roads. See Financial News. 3-22

Virginia—State Highway Comm., Richmond, receives bids May 10 for 2 roads, bridge: Northampton County—6.2 mi. conc., Route 34; Clarke County—37 mi. bit. macad. Route 36, including 45-ft. Millwood Creek bridge.

Va., Bedford—Bedford County Bd. of Supvs. considering improving Trent's Ferry road, Trent's Ferry to Judith Creek; County to make survey.

Va., Chesterfield—State Highway Comm., Richmond, expend \$21,000 to build road in Chesterfield County.

Va., Lynchburg—R. W. B. Hart, City Mgr., plans \$196,000 paving, and \$19,500 for bridges, including widening with conc. one-way Blackwater Creek Bridge, Lexington Turnpike.

Va., Norfolk—J. Walke Truxton, City Mgr., plans second roadway through Willoughby, and extending Ocean View Ave. from present terminus at Cottage Line, past Ocean View Park to connect with Willoughby road.

Va., Richmond—Streets Committee, City Council, considering grading, graveling, curbing and guttering streets in various sections; \$250,000 available.

Va., Richmond—Mayor Bright considering \$500,000 street improvement. See Financial News.

West Virginia—State Road Comm., Charleston, receive bids May 22 to treat 10 roads, totaling 85.2 mi.: Fayette County—2.8 mi. Lookout-Winona road; Greenbrier County—3.9 mi. White Sulphur-Virginia Line; Monroe County—4 mi. Wolf Creek road; 6 mi. between Union and Second Creek; Raleigh County—6.8 mi. Crab Orchard-Sophia; 5.1 mi. Beckley-Harper; 4.2 mi. Shady Springs-Mercer County line; Kanawha County—11.1 mi. South Malden to Boone County line road; Boone County—30.2 mi. Kanawha County line to Logan County line; Summers County—5 mi. Hinton-Jumping Branch.

W. Va., Huntington—City plans receiving bids to pave Jackson Ave., West Eighth to Ninth; A. B. Maupin, City Engr.

W. Va., Lewisburg—Greenbrier County Court, Paul C. Hogsett, Clk., plans \$107,000, to grade and drain 12 roads; vote May 5 on bonds.

W. Va., Logan—Logan County plans \$300,000 road building. See Financial News.

W. Va., Parkersburg—City plans 4,650 sq. yd. rein. conc. paving, 2,700 ft. curbing, 1,500 cu. yd. excavation, on Jeanette St.; J. V. Dunbar, City Engr.

Contracts Awarded

D. C., Washington—Dist. Comms. let contract to Aiello Construction Co., Gough and Fourth Sts., Baltimore, Md., \$98,000, for 6 mi. 6-in. conc. base in alleys; to Pennell & Harley, Spartanburg, S. C., \$394,600, for 9 mi. 33-ft. wide, 6-7-8-in. conc. base roadways; Corson & Gruman Co., Inc., Thirty-third and K St., N. W., Washington, \$103,182, for 60 mi. 63-ft. wide, $\frac{3}{4}$ -in. asphalt surface, 6-in. conc. base, pavement; Geo. B. Mullin Co., Inc., 1296 Upshur St., N. W., \$81,000, for 11 mi. 6-ft. wide conc. sidewalks. 4-5

Fla., Bronson—Levy County Comms. let contract to L. B. McLeod Construction Co., Stovall Bldg., Tampa, to pave Road 19, Noble Ave., through Williston.

Fla., Tavares—Lake County Comms., let contract to Manley Construction Co., Leesburg, for Road 14, Astor to Marion County line; McCracken Sewer Pipe Co., Sanford, for drainage.

Ga., Waynesboro—R. L. Oliver, City Clk., let contract to Interstate Contracting Co., Savannah, \$59,000, for 61,800 lin. ft. curb and gutter, grading, storm sewers. 4-19

Kentucky—State Highway Comm., Frankfort, let contracts for 19 roads: Adair County—4.599 mi. grade and drain, Columbia-Burkesville road, Mason Construction Co.,

West Point, Ky., \$46,865; Cumberland County—7.860 mi. grade, drain, Burkesville-Columbia, Lewis-McComas Co., Burkesville, \$84,693; Knott County—7.367 mi., Hindman-Dwarf, Codell Construction Co., Winchester, \$102,657; Jackson County—10.492 mi. McKee-Manchester, Berea Construction Co., Berea, \$132,284; Mason County—5.5 mi. traffic-bound macad., Sardis-Washington, Caldwell & Bates, Danville, \$41,103; Gallatin County—1.314 mi. grade, drain, Florence-Warsaw, Thomas Ruth & Co., Frankfort, \$52,129; Nicholas County—2.413 mi. waterbound macad., Carlisle-Cynthiana, Murphy & Kerr, Georgetown, \$50,511; Martin County—7.289 mi. grade, drain, Inez-Kermit, Nart & Blair Construction Co., Whitesburg, \$98,800; Shelby County—826 mi. New Castle-Frankfort, H. S. Rye & Son, Bedford, \$5,283; Henry County—1.125 mi. grade, drain, Louisville-Bedford, H. S. Tye & Son, \$8,644; Russell County—7.879 mi. creek gravel, Russell Springs-Liberty, Bernard Antle Construction Co., Jamestown, \$50,500; Mason County—3.176 mi. trafficbound macad., Mayslick-Wedonia, Gay-Coleman Construction Co., Ashland, \$30,357; Greenup County—3.447 mi. grade, drain, Greenup-Fullerton, Hunt-Forbes Construction Co., Ashland, \$67,897; 4.564 mi. Greenup-Fullerton, Carl L. Lewis, Covington, \$54,550; 3.144 mi. Greenup-Fullerton, G. A. Reeves, Greenup, \$25,453; Harrison County—1.098 mi. bit. macad., Cynthiana-Brooksville, O'Hare & Sable, Newton, \$22,963; Monroe County—3.488 mi. rein. conc. Maysville-Brooksville, E. K. Newell Co., Maysville, \$81,184; Barren County—1.596 mi. grade, drain, Glasgow-Burkesville, Ping Bros. & Ballard Bros., Somerset, \$18,473.

La., Abbeville—Vermillion Parish Police Jury let contract to Hammett & Salter, Natchitoches, \$33,874, for 15 $\frac{1}{2}$ mi. gravel, Road Dist. 4, including bridges; Holloway Gravel Co., Amite, \$26,698, for 13,000 cu. yd. gravel. 4-19

La., Natchitoches—Fleanniken Construction Co., Cohn Bldg., Shreveport, has contract \$22,817, for rein. conc. paving Second and Horne St. 4-5

Md., Baltimore—Bd. of Awards let contract to Potts & Callahan, Knickerbocker Bldg., \$8100, to grade Chesterfield and Eilerslie Ave., Cont. 457; N. L. Smith, Highways Engr. 4-12

Miss., Jackson—Mayor and Comms., let contract to Dunn Construction Co., Merchants Bank Bldg., \$50,116, for 6-in. conc. base, 2-in. asphaltic conc. top, on 4 streets; W. J. Horie, Euclid Ave., and Dunn Construction Co., for 5000 sq. yd. sidewalks.

Md., Towson—Baltimore County Comms., John R. Haut, Ch. Clk., let contract to H. T. Campbell Sons Co., \$63,749 for 3 roads: 1.14 mi. conc. Manor road (Knoebel-Sweet Air); .5 mi. Corbett road; .5 mi. Piney Hill road. 4-12

Okla., Tulsa—City let contracts for 4 streets: Surface Lewis Ave. and Twentieth St., Standard Paving Co., 2119 E. 11th St., \$30,754; pave Birmingham Ave., Twelfth St. to Fourteenth St., Western Construction Co., 229 N. Nogales St., \$17,317; surface Hazel Blvd., H. L. Cannady, 1116 S. Lewis St., \$12,113.

Okla., Tulsa—Herman E. Newblock, Mayor, let contract to Standard Paving Co., 2119 E. 11th St., \$10,589, to pave Columbia and Delaware Ave., Columbia and Sixteenth Places.

Texas—State Highway Comm., Austin, let contracts for 5 roads, bridge: Hardeman County—8.093 mi. grading, draining, Highway 5, Tibbetts Construction Co., Joseph Bldg., Fort Worth, \$42,085; Marion County—20.555 mi. iron ore topsoil surface, Highway 49, Raymond Canyon, 1412 S. First St., Austin, \$48,221; Dimmitt County—18.450 mi. grading, draining, Highway 55, D. H. Buchanan, 1320 N. Ninth St., Temple, \$73,802; Baylor County—13.203 mi. $\frac{3}{4}$ -in. bit. macad. surface course, soft limestone or gravel base course, Highway 23, H. K. McCollum, 1507 F. & M. Natl. Bank, Fort Worth; Cameron County—7.854 mi. grading, bridges, Highway 96, Dodd & Wedegartner, San Benito, \$12,671; timber and conc. bridge, Sta. 479 plus 67, at \$59,978. 4-19

Texas—State Highway Comm., Austin, let contracts for one course asphalt surface treatment on 6 roads, grade and drain road: Kerr-Kimble Counties—39 mi. Highway 27, Junction to Mountain Home, Kelly Construction Co., Pleasanton, \$89,101; Schleicher-Sutton Counties—29.95 mi. Highway 27, Sonora to Llano River west of Kimble County line and 17.5 mi. Highway 30, Sonora, north, Dozier Construction Co., Austin Natl. Bank, Austin, \$89,101; Coleman County—17.78 mi. Highway 7, Brown-Coleman County line through Coleman to Callahan-Coleman County line, McClung Construction Co., 1309 Fort Worth Natl. Bank, Fort Worth, \$99,397; Taylor County—11.32 mi. Highway 7, Tuscola

to Coleman-Taylor County line, Cocke & Turner, Marshall, \$19,245; Kendall County—.85 mi. Highway 27, Comfort, Tex., Colglazier & Hoff, 125 Crosby St., San Antonio, \$6480; Tarrant County—.876 mi. Highway 121, point northeast of Fort Worth to Grapevine, Patterson & Gage, Corsicana, \$32,195. 4-19

Texas—State Highway Comm., Austin, let maintenance contracts for 5 roads: Colorado County—.15 mi. Highway 3, Borden to near Columbus, and from Eagle Lake to Colorado-Wharton counties line, McClung Construction Co., Ft. Worth Natl. Bldg., Fort Worth, \$20,253; Brazos County—.9 mi. Highway 6, Brazos-Grimes line toward College Station, Haden & Austin, 1901 Runnels St., Houston, \$17,249; Montgomery County—.13 mi. Highway 19, Conroe to Harris-Montgomery line, Brown & Root, Georgetown, \$25,377; Robertson County—.6 mi. Highway 6, Hearne toward Calvert, McClung Construction Co., Fort Worth, \$10,948; Bexar County—.9 mi. Highway 3, Bezar-Medina line to present asphalt, R. L. White, City Natl. Bk. Bldg., San Antonio, \$15,463.

Tex., Brady—Brown & Root, Austin, have contract for 33 blocks rock asphalt paving. 3-19

Tex., Cuero—DeWitt County, Stanley Kulawik, Judge, let contract to S. F. Vann, Trinity, to grade and bridge 8.5 mi. Prairie View road.

Va., Richmond—R. Keith Compton, Dir. of Public Works, let contract to C. M. Weinbrunn, 1015 N. Sixth St., \$29,000, to pave Natl. Cemetery road.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—City, A. J. Hawkins, Engr., rejected bids for Woodland central storm sewers; call for new bids May 22 for t. c. pipe, also alternate bids on different forms conc. pipe. 4-26

Ala., Birmingham—W. C. Howton Contracting Co., 1007 N. 41st St., has contract at \$59,426 for Homewood sewer and at \$62,360 for Shades Valley sewer; L. H. Salter, County Sanitary Engr. 4-26

Ala., Birmingham—See Roads, Streets, Paving.

Ala., Columbiana—City plans installing sewer system.

Ark., Bebee—Sewer Impv. Dist. No. 1 plans sewer system; William Crooks Engr. Corp., Home Ins. Bldg., Little Rock, Engrs. 4-26

Ark., Lonoke—See Water Works.

D. C., Washington—S. B. Whinery, 1 Hudson St., New York, low bidder at \$12,850 for sewage pumping equipment.

D. C., Washington—Dist. Commrs. receives bids May 10 for sewers. See Want Section—Bids Asked.

Fla., Bonifay—See Water Works.

Fla., Tampa—Frank Esser & Co., 1134 E. Lime St., Lakeland, has contract for sewers. 4-12

Ga., Waynesboro—Interstate Contracting Co., Savannah, has contract for storm sewers.

Ga., Warrenton—See Water Works.

Md., Baltimore—Adams & Marino, 208 Old Town Bank Bldg., has contract at \$39,157 for sanitary sewers and storm drains; Milton J. Ruark, Sewerage Engr. 4-12

Md., Cumberland—City receives bids May 10 for improvements along Wills Creek. See Want Section—Bids Asked.

Mo., Chillicothe—City votes June 4 on \$150,000 sewer bonds; Charles A. Haskins, Engr., Kansas City.

N. C., Fort Bragg—Porter Construction Co. has contract for sewer line. 3-1

Okla., Apache—Charles Robuck Co., Omaha, Neb., has contract at \$38,560 for sanitary sewer and water works extension; install Imhoff tank and sprinkler sludge bed; V. V. Long & Co., Engrs., Colecord Bldg., Oklahoma City.

Okla., Blackwell—Fisher Construction Co., has contract for sewer in block 23.

S. C., Greenville—Greater Greenville Sewer District Comsn., let contract to Tucker & Laxton, Inc., Independence Bldg., Charlotte, N. C., for last 5 sections trunk line sewer; c. i. pipe to American Cast Iron Pipe Co.,

Birmingham, Ala.; terra cotta pipe to W. S. Dickey Clay Mfg. Co., W. 11th St., Chattanooga, Tenn.; engineering in charge J. E. Sirrine & Co., Greenville. 4-26

Tenn., Bolivar—Rowan & Rickard, 212 Rector Bldg., Little Rock, Ark., has contract at \$38,000 for complete sewer system with disposal plant; 40,000 ft. of 6, 8, 10 and 12-in. conc. pipe, 114 manholes, etc.; L. O. Brayton, Engr., Dyersburg. 4-26

Tex., Goose Creek—Williford Construction Co., Houston, submitted plans for extensions to sewer system, including disposal plant; cost \$20,500. 4-5

Tex., Houston—Smith Bros., 2402 W. Dallas St., low bidder at \$221,056 for Leeland-Bell Ave. storm sewer.

Va., Boydton—See Water Works.

Va., Lynchburg—City plans issuing \$115,000 bonds for sewers and \$75,000 for water.

Telephone Systems

Tex., Seminole—Alderman Telephone Co., Midland, acquired Seminole Telephone Co.

Miss., McComb—X. A. Kramer let contract to W. J. McGee & Son, Lamar Bldg., Jackson, at \$28,500 for telephone building; brick, 2 stories, 50x100 ft.; H. C. Lindsey, Archt., Lamar Bldg. 3-22

Textile Mills

Ark., Malvern—International Shoe Co., 1505 Washington St., St. Louis, Mo., receiving bids for 60 carloads washed and screened gravel, 50 carloads river sand and 15 carloads of cement for shoe duck and canvas glove fabric plant. 4-26

Ga., Calhoun—Echota Cotton Mills, plans 1 story addition to mill, 185x150 ft.; 2 story warehouse, 50x150 ft.

Ga., Cornelia—Cornelia Cotton Mill, Inc., recently organized, has begun construction of textile mill on highway outside city limits; 75x150 ft.; conc. and conc. block; 1 story w. foundation for additional stories later; machinery purchased; will install 2300 spindles.

Ga., Newnan—Arnco Mills let contract to Crawford & Slaton Co., 840 Woodrow St., S. W., Atlanta, for dry pipe sprinkler system; Lockwood, Greene & Co., Engrs., Charlotte, N. C. 3-29

North Carolina—Merrill, Lynch & Co. and Hallgarten & Co., both New York, offering \$1,500,000 7% first preferred stock, with common stock warrants of Adams-Mills Corp., J. H. Adams, Pres., to be organized under laws of North Carolina, and acquire through consolidation all assets and business of an existing company of same name and of High Point Hosiery Mills, Inc., Piedmont Mills Co., Kernersville Knitting Co. and Pointer Hosiery Co.

N. C., Asheboro—Bossong Hosiery Mills, let contract to Automatic Sprinkler Co. of America, Johnston Bldg., Charlotte, for sprinkler equipment; Lockwood, Greene & Co., Engrs., Archts. 4-19

N. C., Asheboro—Cetwick Mill, incorporated; E. L. Cetwick, Asheboro; C. B. Cetwick, Bradford, Pa.; establish silk throwing mill W. Asheboro.

N. C., Elkin—Chatham Mfg. Co. let contract to T. C. Thompson & Bros., 609 N. Smith St., Charlotte, for addition; brick, conc. and steel; will be used to house raw stock, cleaning and mixing machinery. 3-29

N. C., Marlon—Marion Novelty Mills, W. K. M. Gilkey, Propr., establishing plant for manufacture boys' fancy golf hose; Hemp-hill Co., Pawtucket, R. I., knitting machinery contractors; Paramount Textile Machinery Co., Chicago, Ill., finishing mech. 4-12

N. C., Rocky Mount—A. Schottland, Inc., Paterson, N. J., and 235 W. Thirty-seventh St., New York, let contract to D. J. Rose & Sons, Rocky Mount, for first unit Japanese broad silk mill on Grace St. between Paul St. and Nashville Rd.; brick and steel, 30,000 sq. ft. floor space; install 200 looms and auxiliary machinery.

N. C., Greensboro—Mock, Judson, Voeh-ringer, Inc., Howard and Hiatt Sts., let contract to Wm. F. Lotz, Fkd. Ave. and Oxford Pike, Philadelphia, Pa., for \$75,000 addition to hosiery mill on Spring Garden St.; conc. and steel; install machinery; Charles C. Hartmann, Archt., Jefferson Bldg., Greens-boro, will supervise construction. 3-1

N. C., Sevier—Sevier Knitting Mills, Inc., capital \$40,000, incorporated; S. H. Yancey, M. L. Good.

N. C., Spray—Spray Cotton Mills advises that contract has not been placed for erecting mill buildings, have not definitely decided to go on with work, although it is probable will do so. 4-26

South Carolina—Stockholders of Riverside Mfg. Co., Toxaway Mills, Lad Lassie Mills, Gossett Dyeing and Finishing Co., all Anderson, and Williamson Mills, Williamson, voted to merge mills as Gossett Mills. 4-19

S. C., Gaffney—Lockwood, Greene & Co., Engrs., Spartanburg, making surveys preliminary to tearing down mill No. 1 and erecting 3 story, brick and steel building for Gaffney Mfg. Co.; first 2 floors will house looms for weaving; remove spur tracks from present location and build new line; plant operates 1800 looms, will make replacements at rate of 150 machines monthly; company plans remodeling, including re-flooring and re-topping main building; cost \$150,000 unequipped. 4-12

S. C., Pacoret—Pacoret Mfg. Co. let contract through office of Lockwood, Greene & Co., Charlotte, N. C., to General Electric Co., Schenectady, N. Y., for switchboard and regulator.

S. C., Spartanburg—Crawford & Slaton Co., 840 S. Woodrow St., S. W., Atlanta, Ga., has contract for installing automatic sprinkler system in Powell Knitting Co.'s extension; Lockwood, Greene & Co., Engrs., Charlotte, N. C. 4-19

S. C., Whitney—Whitney Manufacturing Co. let contract to Huntington & Guerry, River St., Greenville, for electrical installation; Lockwood, Greene & Co., Engrs., Spartanburg. 4-12

Tenn., Dyersburg—Robert & Co., Inc., Engrs., Atlanta, Ga., preparing plans, soon call for bids for mill building; consolidation of 5 textile mills including Adrian Knitting Co., and Adrian Knitted Products Co., Adrian, Mich. 3-29

Tenn., Murfreesboro—Sam N. Hodges, 579 Peachtree St., Atlanta, Ga., contractor for Frank Silk Mills, let following sub-contracts: Structural steel, F. E. Gollan Co., 101 Marietta St.; lumber, Phoenix Planing Mill Co., 719 Highland Ave., N. E., both Atlanta, Ga.; steel sash, Truscon Steel Co., Youngstown, O.; floor hardener, Master Builders Co., E. 71st and Euclid Sts., Cleveland, O.; xc. i. columns, Amer. Cast Iron Pipe Co., Birmingham, Ala.; brick and conc. materials, T. L. Herbert & Sons, 174 Third Ave., N., Nashville, Tenn. 4-22

Virginia—Krumhaar & Co., Inc., 115 Broadway, New York, representing interests who may establish rayon plant in the South; corresponding with Gov. H. F. Byrd.

Va., Bristol—Retex Hosiery Mills, incorporated; H. C. Masengill, E. T. Sproles, Jr., both Kingsport, Tenn.

Va., Richmond—E. O. Fippin, Executive Sec., State Conservation and Development Comsn., negotiating with Dr. J. C. Hartogs, Ambassador Hotel, New York, of Enka Artificial Silk Co., Holland, for plant with capacity for producing 30,000 lbs. rayon daily; company plans locating plant in the South; will organize an American company to operate.

Va., Winchester—Laurel Woolen Mills, Inc., capital \$25,000, incorporated; R. S. Fansler, F. E. Clark.

Mayor Prescott, Biddeford, Me., has been advised by directors of Pepperell Mills that unless city reduces taxes of corporation to an amount at least approximate to that paid prior to the war, company will look elsewhere for site, probably in the South.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Alabama City—City considering erecting pumping station.

Ala., Columbiana—Warrior Water Co., Birmingham, soon begin work on pump house, mains and fire hydrants for water supply system; has franchise. 2-23

Ark., Lonoke—City plans installing water and sewer system.

Fla., Bonifay—City voted \$50,000 water and sewer bonds. 3-22

Fla., Lake Placid—Town, J. E. Sims, Mgr., votes May 22 on \$70,000 water bonds, \$10,000 street lighting, \$8000 fire truck, \$75,000 for improvements on golf and country club; contract for water works let to Frank Esser Co., 1134 E. Lime St., Lakeland; American-LaFrance Fire Engine Co., Candler Bldg., Atlanta, Ga.; improvements practically completed on golf course; no contracts let for street lighting. 4-26

Fla., Lake Worth—See Electric Light and Power.

Fla., Mount Dora—Town Council receives bids June 5 for deep wells and pumps. See Want Section—Bids Asked.

Ga., Barnesville—City voted \$30,000 water bonds.

Ga., Warrenton—City considering water and sewerage system; may let contract to J. B. McCrary Co., Atlanta.

La., Opelousas—Stamm-Scheele Manufacturing Co., Ltd., Rayne, has contract for installing Stamm vertical turbine deep well pump in municipal water plant.

Md., Towson—Covington K. Allen appointed by Bd. of Estimates, Baltimore, as engineer to supervise reservoir construction. 4-5

Miss., Edwards—R. M. Striger, Engr., Lampton Bldg., Jackson, plans in progress for installing fire pump, improve old mains, relay 3000 ft. 4-in. c. i. pipe, lay 600 ft. new 4-in. c. i. pipe and install service connections. See Want Section—Machinery and Supplies.

Mo., Perryville—City plans water works; \$120,000 available; Burns & McDonnell Engr. Co., 402 Interstate Bldg., Kansas City, Cons. Engrs. 4-26

Mo., Sedalia—Sedalia Water Co. offering \$290,000 cumulative 7% preferred stock through Bittling & Co., 316 N. Eighth St., and Hawes & Co., 320 N. Front St., St. Louis; company supplies water to 25,000 people.

Mo., St. Louis—Bd. of Public Service receives bids May 15 to construct and install complete sheet steel breeching and air ducts Missouri River plant, Howard Bend water works.

N. C., Charlotte—City, Robt. L. Brown, Commr. Public Works, may acquire number of privately owned water systems.

Okla., Oklahoma City—City receives bids May 8 for water conduit line. See Want Section—Bids Asked.

Okla., Sasakwa—City votes May 8 on water bonds.

S. C., Greer—Bd. of Public Works receives bids May 9 for water works improvements. See Want Section—Bids Asked.

Tenn., Kingsport—City votes May 5 on water works bonds.

Tenn., Knoxville—Dept. of Public Service receives bids May 7 for water line extension. See Want Section—Bids Asked.

Tex., Graham—City voted \$225,000 water bonds.

Tex., Houston—See Electric Light and Power.

Tex., Marble Falls—City votes May 19 on water works bonds.

Tex., Raymondville—Pittsburgh-Des Moines Steel Co., 611 Professional Bldg., Pittsburgh, Pa., has contract for steel water tank. 4-5

Va., Boydton—City plans voting on water and sewer bonds.

Va., Fairfax—City votes June 12 on \$30,000 water bonds.

Va., Lynchburg—See Sewer Construction.

Va., Portsmouth—City votes June 12 on bonds for water extension.

W. Va., Romney—Town receives bids May 17 for water filtration plant. See Want Section—Bids Asked.

Woodworking Plants

Ga., Athens—Ideal Furniture Co., capital \$25,000, incorporated; V. J. Moss, 824 Hill St.

Ky., Hazard—Star Furniture Co. increased capital, \$16,000 to \$50,000.

Tex., Dallas—Weir Mayor Furniture Co., 1011 Elm St., capital \$25,000, incorporated; A. F. Weir.

FIRE DAMAGE

Ark., Haynes—J. R. Hall's barn; loss \$12,500.

Ark., Waldron—School building; loss \$25,000; Chas. Snowden, Supt. of Schools.

Fla., Auburndale—O. E. Outlaw's residence, Weller Cigar Co., J. F. Hart's store and garage; loss \$20,000.

Ky., Frankfort—Southern Presbyterian Church; loss \$40,000.

Md., Baltimore—Building at 324 Baltimore St., occupied by Eagle Underwear Co., Baltimore Umbrella Co. and others.

Mo., Springfield—H. E. Syplot's residence,

212 N. Main St.; Holiness Church in Kinser neighborhood.

Mo., Versailles—Oddfellow's Bldg.; loss \$50,000.

N. C., Cherryville—Dellview Hatchery; loss \$8000; J. H. Delinger, owner.

N. C., Raleigh—Hiner Supply & Mfg. Co.'s iron castings plant, loss \$25,000; C. N. Hiner, owner.

N. C., Wilmington—Plant of Nitrate Agencies Company, subsidiary of W. R. Grace & Co., Murchinson Bldg., building owned by Atlantic Coast Line R. R.; loss \$250,000.

Okla., Ponca City—King's laundry, loss \$40,000; Home Laundry Co., owner.

Tenn., Bethesda—J. B. Trice's building; J. O. Grigsby building; loss \$12,000.

Tex., Houston—Baker Bldg., Preston and Travis Sts.; Segal Tailor Shop, 406 Travis St.; Sanitary Barber Shop; \$10,000.

Tex., O'Brien—Two gin plants of J. A. Nickels & Sons; loss \$31,000.

Tex., Waco—Sturgis Building, owned by E. A. Sturgis Estate, Waco, and J. N. Sturgis, Lexington, Mo.; loss \$45,000.

Va., Berryville—Mess Hall at Audley Farm owned by B. B. Jones; loss \$10,000.

Va., Emory—Administration building at Emory and Henry College; loss \$100,000.

W. Va., Morgantown—Pierpont M. E. Church, Union District, near Morgantown.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Okla., Oklahoma City—Indian Consistory, A. A. S. R., A. I. Thomas, Sovereign Grand Inspector General of Oklahoma, inaugurate \$600,000 fund campaign May 15-25 to rebuild and enlarge temple.

S. C., Orangeburg—Salvation Army, H. R. Sims, Pres., Advisory Bd., completed plans for citadel, S. Middleton and Wiles Sts.; 2 stories, 25x75 ft.

Bank and Office

Ala., Ensley—Erskine Ramsay, Amer. Tr. Bldg., and Carr McCormack, both Birmingham, probably start work in 60 days on Ramsay Bldg., Avenue E and 19th St.; rein. conc. frame, brick, stone and terra cotta, 10 stories and basement, 87x70 ft., 20-yr. built-up roof, rein. conc. spread foundation; stores on first floor, offices above; Brooke B. Burnham, Archt., Age-Herald Bldg.; E. W. Brunnell, Mech. Engr., Amer. Tr. Bldg., both Birmingham; elect. and struct. engineering by Archt. 3-31-27

La., Lafayette—Public Service Commr., Dudley J. LeBlanc, Pres., Dixie National Insurance Co., erect brick office bldg., E. Vermillion and Polk Sts.

Md., Baltimore—Greenway Corp., 137 E. North Ave., purchased bldg.; remodel for banking and investment trust business; stone, 3 stories, 22x138 ft., hardwood floors, Carey roof; \$30,000; furnishings, equipment, etc., \$10,000; Ed. F. Tormey, Archt., 341 E. 30th St.

Miss., Macon—Bank of Macon receiving bids for brick and limestone trim addition; 1 story and basement, conc. foundation, built-up comp. roof, \$20,000; P. J. Krouse, Archt., M. & W. Bldg., Meridian. 3-22

Miss., McComb—Price & Johnson erect brick office bldg.; 2 stories, 23x45 ft., rein. conc. foundation, tile and wood floors, comp. roof; Sam Stone, Jr. & Co., Archts., Masonic Temple Bldg., New Orleans, La.; bids in.

N. C., Asheville—Tench Cox Estate, Wachovia Bank & Trust Co., Trustee, having plans completed by Beacham & LeGrand, Archts., Flat Iron Bldg., for \$35,000 office bldg., 91-93 Patton Ave.; fireproof, rein. conc., struct. steel and brick, stone trim, 8 stories and basement, 42x100 ft., conc., tile and terrazzo floors, built-up roof, steam heat, high-speed elevators; bids about June 1. 4-26

N. C., Burlington—Atlantic Bank & Trust Co., S. J. Hinsdale, Cashr., reported, plans 8- to 12-story steel bank and office building, Main and Davis Sts.

N. C., Charlotte—W. L. Nicholson, 140 Brevard Ct., erect \$10,000 office bldg., Brevard Ct. and S. Church St.; 2 stories, brick.

Okla., Blackwell—Kennedy Bros. erect \$200,000 office and theater building; 4 stories; H. H. Mahler Co., Archts.

Tenn., Chattanooga—Hamilton Trust & Savings Bank, W. E. Tomlinson, Vice-Pres., receives bids May 22 for 4-story and basement bank and office bldg., Main and Market Sts.; \$500,000, conc. slab basement, Elberton (Ga.) dark grey granite base, terra cotta and face brick exterior walls, tile and brick backing, rein. conc. construction, gypsum block partitions, 110x60 ft., East Tennessee grey marble work for banking room, entrances, wainscoting, etc.; struct. steel, steel stairs, misc. and orna. bronze and iron work, Barrett AA 4-ply roof, Celotex, cement, terrazzo, tile, marble and rubber tile floors, Voightmann metal windows, Swartout ventilators; R. H. Hunt Co., Archt., James Bldg.; following contractors estimating: John Parks Co.; Geo. Becking & Son; T. S. Moudy Co.;

Mark K. Wilson Co., all Chattanooga; Southern Ferro Concrete Co., Atlanta, Ga.; Underwood Contracting Corp., New Orleans, La.; Foster & Creighton Co., Nashville, Tenn.; A. C. Samford, Montgomery, Ala. 4-19

Tenn., Knoxville—Morris Plan Bank, E. M. Kennedy, Sec.-Mgr., received bids Apr. 30 for brick bldg., W. Clinch St.; \$135,000, 2 stories and basement, limestone trim, rein. conc. frame, comp. roof, steam heat; Baumann & Baumann, Archts., 813½ Market St.; following contractors estimating: Harry Gervin; J. M. Dunn; V. L. Nicholson & Co.; A. H. Whisman; Worsham Bros.; A. J. Stair & Son; A. R. McMurray; Weaver & McGill; S. D. Cox Co. 1-26

Tenn., Memphis—Wyatt C. Hedrick, Archt., First Natl. Bk. Bldg., Fort Worth, Tex., and Post-Dispatch Bldg., Houston, Tex., erect 26-story office bldg., Madison Ave. and Third St.; building company to be called Third & Madison Co., Mr. Hedrick president and owner; probably let contract within 30 days; steel frame, brick curtain walls, stone trim, 230,000 sq. ft. store and office space, 22,500 sq. ft. ground area; 13 main stories 150 ft. high, 13-story tower with 2 set-backs; eight 800-ft. signal elevators; probably erect 3-story fireproof garage adjoining.

Tex., Del Rio—First National Bank receives bids May 10 for bank and office bldg.; rein. conc., 5 stories, 50x87 ft., terrazzo and cement floors, conc. foundation, comp. roof; Geo. Willis & Emmett T. Jackson, Asso. Archts., Bldrs. Exch. Bldg., San Antonio. See Want Section—Building Material and Equipment. 4-19

Tex., El Paso—V. V. Frye, care Alamogordo Lumber Co., plans office bldg., Skyland.

Tex., Lockhart—Lockhart National Bank remodel building.

Tex., San Angelo—H. B. Robb, 3835 Normandy St., Dallas, John D. Jones, San Angelo, and others let contract May 15 for 6-story theater and office bldg.; \$280,000; furnishings, equipment, etc., \$75,000; theater seat 2000, 75 offices; Scott Dunne & Co., Archts., Melba Bldg., Dallas. 3-29

Tex., San Antonio—Dr. H. H. Ogilvie, Med. Arts Bldg., has low bid at \$26,385 from J. E. Dickey for sixth-story addition to Ogilvie Bldg.; Adams & Adams, Archts., Real Est. Bldg.

Va., Portsmouth—Dr. L. A. McAlpin, Professional Bldg., interested in erection of professional bldg.; tentative plans call for 4 or 5 stories.

Churches

Ala., Auburn—Baptist Church has low bid at \$57,395 from Daniell Lumber Co., La Grange, Ga., for bldg.; Warren, Knight & Davis, Archts., Empire Bldg., Birmingham, Ala. 4-12

Ala., Birmingham—Shady Grove Baptist Church laying foundation for \$10,000 brick and tile bldg.; 50x80 ft.; furnishings, equipment, etc., \$2500; W. A. Rayfield & Co., Archts., Drawer 649.

Ala., Birmingham—Trinity C. M. E. Church, Rev. J. S. Smith, Pastor, erect \$25,000 semi-fireproof bldg.; 2 stories, 45x87 ft., pine floors, conc. foundation; furnishings, equipment, etc., \$5000; W. A. Rayfield & Co., Archts., Drawer 649; bids in. See Want Section—Building Material and Equipment.

Ala., Montgomery—Forest Avenue M. E. Church, South, Rev. I. W. Chalker, Pastor, completed excavation for \$35,000 to \$40,000 Sunday school annex.

Ark., Pine Bluff—Lakeside Methodist Church, Harvey C. Couch, Chmn., Bldg.

Comm., having plans drawn by John P. Almand, Boyle Bldg., Little Rock, to remodel bldg.; \$15,000. 3-15

Ala., Thomasville—Baptist Church, D. F. Anderson, Chmn., Bldg. Comm., receives bids May 22 for brick Sunday school; 2 stories, hardwood floors, tin roof; John W. McKeil, Archt., Selma. See Want Section—Building Material and Equipment. 2-28

D. C., Washington—Lutheran Church of the Atonement, Rev. H. E. Snyder, Pastor, 2419 First St., N. W., erect \$150,000 church and Sunday school, N. Capitol and Rhode Island Ave.; Ritcher & Eller, Archts., 147 N. Fifth St., Reading, Pa. 4-26

Fla., Clewiston—Presbyterian Church, Rev. W. T. Bailey, Pastor, erect \$30,000 bldg.; \$12,000 Sunday school as first unit; 35x60 ft., conc., tile and stucco, Spanish type. 4-19

Fla., Miami Beach—Beth Jacob Temple Bldg. Comm., care Harry Levitt, Fourth St. and Ocean Drive, erect \$25,000 synagogue, 313 Washington Ave.; ordinary type, rein. conc. frame, conc. block curtain walls, stucco, steel truss, 2 stories, 40x100 ft., pine and tile floors, conc. foundation, comp. roof; A. Fraser Rose, Archt., 206 Sixth St.; contract in Summer. 4-26

Fla., Tallahassee—Trinity Church, O. C. Van Brunt, member, plans \$60,000 Sunday school, Duval St.; 3 stories, accommodate 1300. 4-26

Ga., Harlem—First Methodist Church erect \$12,000 brick and frame bldg.; \$12,000, 1 and 2 stories, comp. roof; N. Sargeant Hamilton, Archt., Wayne-Claughton Bldg., Atlanta. 4-26

Ga., Porterdale—Baptist Church, Rev. Mr. Blackwell, Pastor, plans \$20,000 building. 4-26

Ky., Frankfort—Southern Presbyterian Church, Rev. V. P. Merrill, Pastor, rebuild structure noted burned at \$40,000 loss. 4-26

Ky., Mayfield—First Baptist Church receives bids May 22 for brick and stone church and Sunday school; 4 stories, 145x120 ft., oak floors, conc. foundation, slate and comp. roof; Hart, Freeland & Roberts, Archts., Ind. Life Bldg., Nashville, Tenn. 4-26

Md., Baltimore—Bethel Reformed Church, Rev. W. R. Strietmeier, Pastor, 2 S. Elwood Ave., erect brick church and Sunday school; about 50x70 ft., 2 stories, slate roof, gas-steam heat; plans in about a week; C. W. Bolton & Son, Archts., 1505 Race St., Philadelphia, Pa. 4-26

Miss., Columbia—Baptist Church selected N. W. Overstreet, Miss. Fire Bldg., Jackson, as architect for \$30,000 annex; rein. conc., brick, stone trim, 3 stories, rein. conc. foundation, built-up comp. roof. 3-22

Miss., Macon—Methodist Church selected Hubert T. McGee, Fidelity Bank Bldg., Memphis, Tenn., as architect for \$25,000 Sunday school addition; 3 stories; remodel church. 2-9

Mo., Brookfield—Methodist Episcopal Church erect \$75,000 bldg. to replace burned structure. Address The Pastor. 4-26

Mo., Kansas City—East Side Presbyterian Church, Rev. A. A. Smith, Pastor, 2301 Lister St., erect \$75,000 brick bldg., 23 Van Brunt Blvd.; Felt-Dunham-Kreihn, Archts., Balcony Bldg. 4-26

Mo., Kansas City—Emmanuel Lutheran Church, Rev. Victor Spong, Pastor, 4240 Genessee St., having plans drawn by H. C. Eckland, 705 Finance Bldg., for \$50,000 first unit of bldg., 43rd St. near Bel St.; 2 stories. 10-27

Mo., St. Louis—Evangelical Lutheran Church of The Messiah, Chas. Wehking, Chmn., Bldg. Comm., 612 Kingshighway Park, erect 1-story bldg., Grand Blvd. and Pestalozzi St.; LeBeaume & Klein, Archts., Comp-ton Bldg. 4-26

N. C., Shelby—Second Baptist Church, South Shelby, Rev. Rush Padgett, Pastor, erect 25-room addition; bids in. 4-26

N. C., Shelby—Sulphur Springs Methodist Church, care Rev. R. L. Forbes, on Shelby circuit, plans brick building. 4-26

N. C., Statesville—Broad Street Methodist Church, Rev. A. L. Stanford, Pastor, erect \$55,000 Sunday school after plans by Edwin B. Phillips, Fidelity Bk. Bldg., Memphis, Tenn.; steel, brick and tile, 2 stories and basement, 153x63 ft.; accommodate 1200; pipe organ; bids in. 4-5

Okla., Oklahoma City—Olive Baptist Church erect \$50,000 Sunday school; brick and stone, 3 stories and basement, 55x120 ft.; Harry Reynolds and Martin Lawrence, 322 E. Ninth St., Asso. Archts. 4-26

S. C., Columbia—Shandon Presbyterian Church, R. F. Des Champs, Chmn., Bldg. Comm., 2512 Divine St., receives bids May 8 for church and Sunday school; brick, stone

trim, hardwood, tile and conc. floors, comp. roof; Lafaye & Lafaye, Archts., 1224 Sumter St.; following contractors estimating: Geo. Waring; Lupe Construction Co.; J. T. Dabbs; W. A. Cray & Son; Mechanics Contracting Co.; J. C. Heslep; Rutherford Innes Construction Co., all Columbia; Clausen-Lawrence Co., Augusta, Ga. 4-26

Tenn., Chattanooga—I. B. Tigrett & Co., 73 Madison Ave., Memphis, offer \$220,000 1st mortgage (closed) 5½% serial gold bonds for First Baptist Church to retire outstanding obligations erect Sunday school and purchase equipment. 4-26

Tenn., Humboldt—First M. E. Church, South, L. S. Adams, Chmn., Bldg. Comm., having plans drawn by Edwin B. Phillips, Fidelity Bk. Bldg., Memphis, to remodel church and erect \$50,000 to \$60,000 Sunday school annex; brick, 2 stories and basement, 77x120 ft., wood floors, slate and comp. roof, steam heat. 3-1

Tex., Ballinger—First Methodist Church will complete superstructure; first floor finished; \$30,000. Address The Pastor. 4-26

Tex., Bryan—First Methodist Church, E. J. Jenkins, Chmn., Bldg. Comm., plans Sunday school. 4-26

Tex., Fort Worth—Arlington Heights Methodist Church, J. B. Jordan, Chmn., Bldg. Comm., start work about June 1 on \$40,000 to \$50,000 Sunday school; brick and steel, 50x107 ft., pine and hardwood floors, rein. conc. foundation; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg. See Want Section—Bldg. Material and Equipment. 2-23

Tex., Granger—Roman Catholic Church, Rev. J. Vanicek, Pastor, erect \$10,000 frame parish house; 2 stories, conc. foundation, edge grain pine floors, asbestos shingle roof; Edwin C. Kreisle, Archt., Scarbrough Bldg. 4-26

Va., Richmond—St. Benedict R. C. Church having plans drawn by Father Michael for \$100,000 bldg., Sheppard St. and Hanover Ave. 4-12

W. Va., Morgantown—Pierpont M. E. Church, Union District, near Morgantown, rebuild structure noted burned. Address The Pastor. 4-26

City and County

Ark., Little Rock—Pulaski County Bd. of Commrs., W. E. Lenon, member, call for bids in few days for rein. conc. and limestone jail; \$175,000; 4 stories and basement, tool and heatproof steel cells; Thompson, Sanders & Glencoe, Archts., Hall Bldg. 3-1

Ga., Dalton—Whitfield County Bd. of Commrs. receives bids May 3 for jail; rein. conc. and brick, 2 stories, 37x45 ft., pine and conc. floors, Barrett built-up roof; alternate bids for dwelling; plans by Manley Jail Works, Dalton. 4-26

La., New Orleans—Bd. of Commrs. of Orleans Levee Bd. has low bid at \$27,000 from H. Pratt Farnsworth, Canal Bk. Bldg., for administration bldg. and at \$650 each for bathhouses, Spanish Fort; bid at \$3286 from Gervais F. Favrot, Balter Bldg., for pavilion. 4-26

Md., Hagerstown—First Hose Fire Co., 37 S. Potomac St., remodel and enlarge bldg.; brick, 2 stories; C. E. Kountz, Archt., Young Bldg. 4-26

Miss., Philadelphia—Following contractors estimating on \$75,000 Neshoba County courthouse, bids May 9: T. L. Reed, Jr., Belzoni; W. J. McGee & Son, Fondren School, Jackson; Currie & Corley, Raleigh; L. W. Hancock, 26th Ave.; McArthur & McLemore, M. & W. Bldg., both Meridian; Howell Construction Co., Philadelphia; C. A. Fulghum, Thiesen Bldg., Pensacola, Fla. 4-26

N. C., Goldsboro—Wayne County Bd. of Commrs. having plans drawn by Harry L. Barton, Jeff. Standard Bldg., Greensboro, for remodeling courthouse and erecting jail; \$260,000. 2-23

Tenn., Chattanooga—City erect jail, fire and police dept. bldg., Tenth and Lindsey Sts.; rein. conc., 2 stories and basement, 50x115 ft.; plans by City Engr. about ready. 4-26

Tex., Houston—Committee of 9, including Judge Sam Streetman, Chmn.; W. P. Hobby, appointed by Mayor O. F. Holcombe to select architect to supervise erection of \$1,000,000 city hall, recommends Alfred C. Finn, Bkrs. Mtg. Bldg.; James Ruskin Bailey, 1606 Main St., and Hedrick & Gottlieb, Inc., Post-Dispatch Bldg. 3-29

Tenn., Linden—Perry County Court having plans drawn by C. K. Colley & Co., Fourth & First Bldg., Nashville, for 2-story and basement brick and concrete courthouse. 4-26

Tex., Corpus Christi—City, J. T. Wright, Sec., ready for bids for 2 fire stations, Leopard and Coleman Sts., and Morgan and 11th Sts.; 1 story, 37x80 ft., stucco and

hollow tile and face brick and clay tile roof; E. Kenneth Ahler, Archt., 624 Mesquite St. 3-15

Tex., Floydada—City Council receives bids May 25 for brick and tile city hall; \$10,000. 4-19

Tex., Pittsburg—Camp County Commrs., Court, Joe Hooten, County Judge, receives bids May 14 for courthouse; brick and conc. frame 3 stories and basement, fireproof, \$80,000; plans from Smith & Praeger, Archts., Paris, Tex. 3-22

Tex., Vernon—City, S. H. Hall, City Sec., having plans drawn by R. H. Stuckey for \$85,000 city hall; brick, rein. conc. and steel, 3 stories, 50x103 ft., conc., wood and tile floors, Barrett Specification roof; address proposals on furnishings, equipment, etc., \$15,000, to Owner. See Want Section—Building Material and Equipment. 4-19

Va., Fairfax—Fairfax County Bd. of Supervisors has low bid at \$74,420 from C. H. Brooks, Woodward Bldg., Washington, D. C., for first unit of \$200,000 courthouse; Wm. I. Deming, Archt., 808 Seventh St.; Thos. Marshall, 1341 Connecticut Ave., N. W., Engr., both Washington. 4-19

Va., Lynchburg—City, R. W. B. Hart, City Mgr., plans to issue \$600,000 bonds, including \$25,000 for additional quarters for negroes, Lynchburg Hospital, \$40,000 to remodel bldg., \$40,000 for central fire alarm station and \$50,000 for fire station. 4-19

W. Va., Princeton—Mercer County Soldiers and Sailors Memorial, A. W. Reynolds, Jr., Sec., having plans drawn by Garry & Sheffey, Archts., Bailey Bldg., Bluefield, for memorial building. 4-19

Dwellings

Ala., Birmingham—T. L. Harris erect \$10,000 residence, Bush Hill; English type, brick veneer, 2 stories, 45x55 ft., pine and oak floors, conc. foundation, comp. shingle roof; W. A. Rayfield & Co., Archts., Drawer 649. 4-26

Ala., Birmingham—J. H. Higgins, care J. D. Breeding, Archt., 110 N. 21st St., erect \$12,000 residence, 72d St. and Roebuck Blvd.; 1 story, 51x38 ft., tile roof, furnace. 4-26

Ark., Earl—Mrs. Oscar Robinson erect \$10,000 brick veneer residence; 1 story and basement, 37x32 ft., oak floors, tile bath, comp. shingle roof, hot water heat; Sieg & McDaniel, Archts., First Natl. Bank Bldg., Memphis, Tenn. 4-26

Ark., Earl—Mrs. Scott erect \$10,000 brick veneer residence; 2 stories and basement, 36x53 ft., oak floors, comp. shingle roof, tile bath; Sieg & McDaniel, Archts., First Natl. Bank Bldg., Memphis, Tenn. 4-26

D. C., Washington—John Eissler, 4213 18th St., N. W., has permit for \$10,500 residence, 1431 Hemlock St., N. W.; brick, 2 stories. 4-26

D. C., Washington—J. E. Fox, 1615 Buchanan St., N. W., has permit for 2 dwellings, 1630-34 Jonquil St., N. W.; 2 stories, brick, \$37,000. 4-26

D. C., Washington—Garman Bros., 2423 Bladensburg Rd., have permit for 8 dwellings, 2153-57 Thirtieth St., N. W., and 2600 block 30th Place, N. E.; 1 story, frame; \$48,000. 4-26

D. C., Washington—H. R. Hownstein, 311 H St., N. W., has permit for \$15,000 residence, 1228 Hemlock St., N. W.; 2 stories, brick and frame. 4-26

D. C., Washington—Saml. Jacob, 3414 Seventeenth St., N. W., has permit for \$10,500 brick residence; 2 stories. 4-26

D. C., Washington—J. J. Widmayer, 1010 Vermont Ave., N. W., has permit for \$10,000 residence, 5415 Thirty-ninth St., N. W.; 2 stories, brick and tile. 4-26

D. C., Washington—E. M. Willis, 2520 Tenth St., N. E., has permit for 6 dwellings, 2440-50 Huidekeper Place, N. W.; 2 stories, brick and tile; \$30,000. 4-26

Fla., Coral Gables, Miami—Dr. C. R. Moulton probably start work about July 1 on \$17,000 stucco and conc. block residence, N. Greenway Drive; 2 stories, 35x58 ft., wood and tile floors, tile roof; Lee Wade, Archt., 2314 Ponce de Leon Blvd. 4-26

Fla., Fort Lauderdale—Miss Edith Foltz, care Southern Rwy. System exec. offices, Washington, D. C., erect residence, Riviera subdivision. 4-26

Fla., Fort Lauderdale—A. H. Morton, St. Joseph, Mich., erect residence, Sunset Lake. 4-26

Fla., Miami—H. L. Wadsworth, 3537 Book Tower, Detroit, Mich., reported, erect residence, Pine Tree Drive. 4-26

Fla., Miami—Edw. W. Cox erect \$10,000 residence, Rivo Alto; conc. block, 2 stories, conc. beams, wood piles; R. DeC. Weakley, Archt., 210 E. Flager St. 4-26

Fla., Miami Beach—Carson Bradford, 2374 Bay Rd., erect conc. block residence; L shape, 2 stories, 56x56 ft., wood and tile floors, tile and comp. roof; Nieder & Seidler, Archts., Calumet Bldg., Miami.

Fla., Miami Beach—Robt. Graham, 4718 Fourth St., Detroit, Mich., remodel residence, 5565 Pine Tree Drive; Kiehnel & Elliott, Archts., Seybold Bldg., Miami.

Ga., Atlanta—T. K. Glenn, care Atlanta-Lowry Bank, erect brick and stone trim residence; hardwood and tile floors, tile or slate roof, steam heat; Cooper & Cooper, Archts., Bona Allen Bldg.

Ga., Atlanta—W. H. S. Hamilton, Healy Bldg., erect 3 brick veneer dwellings, 1251-55 Hardee St., N. E.; 1 story; \$10,000.

Ga., Atlanta—F. S. Patterson, 1307 Morningside Dr., \$15,000 duplex, 88 Twenty-sixth St.; brick veneer, 2 stories.

Ga., Atlanta—James Shepherd, 1179 Blvd., N. E. and W. H. Winn erect 3 brick veneer dwellings, 1633-7-41 Euclid Ave.; 1 story; \$18,000.

Ga., Atlanta—Victor Sutker, 509 Blvd., N. E., erect \$15,000 residence, 586 Brookridge Drive, N. E.; brick veneer, 2 stories.

Ga., Manchester—H. S. Peters erect brick veneer residence; 1 story and basement, hardwood floors, comp. shingle roof; Daniell & Beutell, Archts., Healey Bldg., Atlanta; bids May 9.

Ga., Manchester—J. W. Smith erect brick veneer residence; 1 story and basement, hardwood floors, comp. roof; Daniell & Beutell, Archts., Healey Bldg., Atlanta; bids May 9.

La., New Orleans—Geo. J. Lupo, Contr., 5406 Hawthorne St., erect single raised bungalow, Pierce and Orleans Sts.

La., Shreveport—W. M. Palmer, Jr., Ward Bldg., erect face brick veneer residence; 1 story, 6 rooms, pine and oak floors, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Md., Baltimore—Arrow Real Estate Co., 16th St., erect 3 frame dwellings and garages, 200 block Lake Ave.; 2 stories; \$15,000.

Md., Baltimore—Lawrence Awalt, Arburtion Ave., erect 15 dwellings, 2600 block Hollins Ferry Rd.; 2 stories, brick.

Md., Baltimore—Potomac Development Co. erect 7 dwellings, 2000 block Aisquith St.; 2 stories, brick; \$20,000.

Md., Baltimore—Isaac C. Rosenthal, 1914 Braddish Ave., erect 8 brick dwellings, 1300 block Poplar Grove St.; 2 stories; \$20,000.

Md., Baltimore—Roland Park Homeland Co., Roland Park, erect 2 stone and stucco dwellings, 4503-05 Springlake Way, Homeland; 2 stories; \$40,000.

Md., Baltimore—Owners' Realty Co., 2 E. Lexington St., erect 12 brick dwellings, 3000 block Mosher St.; 2 stories; \$30,000.

Md., Baltimore—Dominic Catalano, Old Town Natl. Bank Bldg., plans 13 two-story dwellings, 3100 block Kentucky Ave.; \$25,000.

Md., Baltimore—Philip S. Morgan, 514 St. Paul Pl., erect stone dwelling, 4703 Springlake Way, Homeland; 10 rooms, 3 baths; Cyril H. Hebrank, Archt., 3 E. Lexington St.

Md., Baltimore—Mrs. J. W. Huff, 2329 Harford Ave., erect \$40,000 residence; stone, 2½ stories; Mottu & White, Archts., 527 N. Charles St.

Md., Baltimore—Geo. F. Lang, V.-P. Carr-Lowry Glass Co., Westport, erect \$40,000 residence; stone, 2½ stories; Smith & Day, Archts., Calvert Bldg.; Jas. Posey, Mech. Engr., 201 W. Franklin St.

Md., Hagerstown—C. E. Kountz, Archt., 115 Young Bldg., drawing plans to remodel and enlarge dwelling; brick, 2 stories.

Miss., Jackson—Clifford Waterhouse receives bids May 5 for brick veneer residence; \$12,000; 1 story and basement, conc. foundation, tile roof, tile baths and porches; J. M. Spain, Archt., Millsaps Bldg.

Mo., Kansas City—Leo F. Brady, 6123 Kenwood St., erect 3 dwellings, 31 E. 68th St. and 26-27 E. 70th St. terraces; 1 and 2 stories, 23x44 ft., frame; \$11,000.

Mo., Kansas City—Schultzel-Harding, 3502 Troost St., erect 3 dwellings, 2416-20 and 109 E. 70th St.; frame and stucco, 1 story, 24x44 ft. and 22x40 ft.; \$11,000.

Mo., Kansas City—G. L. Musser, 3001 E. 68th St., erect 3 frame dwellings, 6215-21 S. Benton St.; 1 story, 22x39 ft.; \$10,000.

Mo., Kansas City—Fidelity Building Co., 300 W. 47th St., erect 3 brick and stucco dwellings, 104-00 E. and 636 W. 47th St.; 2 stories; \$18,000.

Mo., St. Louis—Robt. W. Bates, 6025 Bartmer Ave., erect \$15,000 residence and garage,

8105 Monroe Ave.; brick, 1 story and basement, 29x49 ft., hardwood floors, tile bath, asphalt shingle roof, hot water heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—Carl E. Brueggeman, 725 Boland Drive, erect brick residence; 2 stories and basement, hardwood floors, tile bath, showers, vapor heat, gas boilers; Saum Architects, Archts.-Constr. Supvrs., 713½ Chestnut St.

Mo., St. Louis—Geo. B. Willmering, Archt., Emma Bldg., W. Florissant Ave., about completed plans for brick dwelling, Pardue Ave., University Hills; 2 stories and basement, 41x37 ft., oak floors, 3 baths.

Mo., University City, St. Louis—W. F. Mars, 6635A Washington Ave., erect \$13,000 brick residence, University Park; 2 stories and basement, 27x46 ft.; G. W. Wolf, Contr., 6636 Delmar Blvd.; bids in.

Mo., University City, St. Louis—Chas. H. Osthoff, Jr., 4879 Kossuth Ave., erect 2 brick dwellings, Kingsbury Blvd. and Delmar Blvd., both University Heights; 2 stories and basement, 29x38 ft. and 34x41 ft., tile baths, hardwood floors, hot water heat; \$50,000; Wodemeier & Nelson, Archts., Wainwright Bldg., St. Louis.

N. C., Winston-Salem—A. C. Brandon, 1406 Apple St., erect \$10,000 residence, Madison Ave.

Okla., Newkirk—G. A. Chappell (lately noted Campbell) probably receive bids within 30 days for \$18,000 residence; brick veneer, 2 stories, 28x40 ft., oak floors, conc. foundation, shingle roof, vapor steam heat; G. J. Cannon, Archt., 320 Okla. St. Bk., Ponca City.

Okla., Tulsa—H. J. Bradford erect \$10,000 residence, 251 E. 27th St.; brick, 2 stories.

Okla., Tulsa—D. F. McMahon, 2104 S. Madison St., erect \$10,000 addition to residence.

N. C., Asheville—W. B. Cathey, 236 Sulphur Springs Rd., W. Ashe, erect \$10,000 residence, Brevard Rd.; 7 rooms.

Tenn., Memphis—C. M. Halford erect \$12,000 duplex, Stonewall St. and Tutwiler Ave.; brick veneer, 2 stories and basement, 33x64 ft., oak floors, tile bath, comp. shingle roof, hot water heat; W. C. Lester, Archt., both Dermon Bldg.

Tenn., Memphis—F. P. Kendall, N. Second St., has low bid from V. V. Rittelmeyer, 625 Trezevant St., for residence, E. Chickasaw Pkwy.; Geo. Mahan, Jr., Archt., 700 Amer. Bank Bldg.

Tenn., Memphis—J. D. Kennedy, 506 Empire Bldg., erect 3 duplexes, Stonewall St. near Jackson Ave.; 2 stories and basement, 33x64 ft., oak floors, tile baths and roof, steam heat, garages; \$35,000.

Tex., Austin—Ed. R. Harrell, 305 E. 38th St., erect \$15,000 residence; brick veneer, rein. conc., 2 stories, 35x54 ft.; Edwin C. Kreisle, Archt., Scarbrough Bldg.

Tex., Austin—Aaron Gorton erect \$10,000 residence, Aldridge Place; stone and stucco, 1 story, conc. foundation, hardwood floors, wood shingle roof, furnace; Edwin C. Kreisle, Archt., Scarbrough Bldg.

Tex., Dallas—J. S. Miller, 814 W. 12th St., erect 2 brick veneer duplexes, 4912 and 5108 Belmont St.; 2 stories; \$12,000.

Tex., Eagle Pass—Sam Schwartz remodel residence; Paul G. Silber & Co., Archts., Bedell Bldg.

Tex., Fort Worth—Rogers, Barber & Wilkes, Tex. Natl. Bldg., erect 2-story brick dwelling, 2014 Ward Pkwy.

Tex., Houston—W. A. Behrman erect brick residence, Washington Terrace.

Tex., Houston—R. J. Bequette erect \$12,000 residence, 1620 North Boulevard; brick veneer, 8 rooms.

Tex., Houston—Mrs. Fredericka Priester plans residence, Blodgett and Caroline Sts.

Tex., Houston—Dr. J. J. Trichel, Park Place, erect brick residence, Washington Terrace.

Tex., Houston—Fred Somers erect 3 brick veneer dwellings, Canterbury St., Devonshire addition; 5, 6 and 10 rooms; \$23,000.

Tex., San Antonio—Texas Building and Plastering Co., 114 Main Plaza, erect English type dwelling, W. Kingshighway; rock veneer, about 47x61 ft.; R. H. H. Hugman, Archt., Tex. St. Bk. Bldg.

Tex., San Antonio—Kelley & Hirschfield, Room 221, Bedell Bldg., erect \$25,000 Spanish type dwelling; probably stucco on tile; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg.; local bids by invitation.

Tex., Vinton—J. F. Reany erect brick veneer residence, Horridge St.

Tex., Mission—R. C. Lowry ready for bids about May 15 for whitewashed common brick

residence, La Joya; 2 stories; Decker & Tanner, Archts.

Tex., San Antonio—Robt. S. Michael, 112 Soledad St., has low bid at \$23,415 from Allen & Allen for residence; Robt. B. Kelly, Archt., Milam Bldg.

W. Va., Huntington—Dr. H. E. Summers, First Natl. Bk. Bldg., erect \$10,000 residence, 13th Ave. near Fifth St.; brick, 2 stories.

Government and State

Ala., Birmingham—Additional contractors estimating on completing attic story, post office and courthouse, bids May 8 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; Jas. H. Elkins Construction Co., 3900 Avenue A, W. F. Jackson Co., Inc., Holmes Construction Co., 210 Exch. Bldg., and Neintrab & Gilbert, 107 North N St., all Birmingham; Algernon Blair and A. C. Samford, both Montgomery.

Ark., Marianna—Cotton Branch Experiment Farm, E. B. Whitaker, Asst. Director, plans barn, 2 houses, etc.; frame, 1 story; \$40,000 available in Summer.

D. C., Washington—Foundation Co., 120 Liberty St., New York, estimating on foundations, etc., for \$10,000,000 bldg. for United States Bureau of Internal Revenue; bids May 21 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt.; Edw. H. Bennett, Consit. Archt., 80 E. Jackson Blvd., Chicago, Ill.

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., has low bid at \$45,439 from H. S. Hutton Construction Co., 100 N St., N. E., for safeguarding dome of rotunda, natural history building, U. S. National Museum.

Fla., Miami—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receives bids May 21 for site for post office, O. W. Pittman, Postmaster.

N. C., Raleigh—North Carolina State Fair, P. O. Box 775, having plans drawn by Atwood & Nash, Inc., Archts.-Engrs., Chapel Hill, for conc. grandstand to seat 3000; call for bids in few days. See Want Section—Miscellaneous.

Hospitals, Sanitariums, Etc.

Fla., West Palm Beach—Good Samaritan Hospital have plans for 20-room addition to nurses' home drawn by Addison Mizner, 337 Worth Ave., Palm Beach, 2 stories; bids in.

Ga., Brunswick—City receives bids May 7 for semi-private hospital addition; \$75,000, brick and conc., 3 stories and basement, 72x39 ft., 1 Otis elevator, fireproof stairs; Daniel & Beutell, Archts., Healey Bldg., Atlanta; additional contractors estimating; S. S. Jacobs, Lutz Realty Bldg.; W. T. Hadow, 32 W. Forsythe St.; H. S. Baird, 3658 Oak St., all Jacksonville, Fla.; W. P. Francis, 201 Luckie St., N. W., Atlanta; John T. Ragan, Vidalia, Ga.; Joe M. Beutell, Thomasville, Ga. Mechanical estimators: A. P. Harrison, Gilmer & Wood, both Brunswick; Sanitary Plumbing Co.; Bryan Electric Co.; 58 Edgewood Ave., N. E., F. J. Brumblow, 200 Walton St., N. W., all Atlanta; Cahon Construction Co., Fort Pierce, Fla.; Louis Fleisher, St. Augustine, Fla.

Md., Baltimore—Supervisors of City Charities, Albert G. Towers, Pres., St. Paul and Lexington Sts., chose Dr. Thos. R. Boggs, Dr. Arthur M. Shipley, Dr. Harry Goldsmith, Col. Rufus E. Longan and Dr. Chas. Hablston as special committee to co-operate in preparing \$2,500,000 bldg. program for Baltimore City Hospitals; loan available.

Mo., Kansas City—City receives bids May 7 for negro hospital, 22d St. and McCoy Ave.; \$200,000; Fredk. C. Gunn, Archt.

Mo., St. Louis—Barnes Hospital, owned and operated by M. E. Church, South, Frank C. Rand, president, International Shoe Co., 1505 Washington St., Chmn., Bd. of Trustees, erect 3 additional stories over surgical div. of main hospital for surgical ward; \$450,000 endowment available from General Education Bd. of Rockefeller Foundation; Trueblood & Graf, Archts., Chemical Bldg.

Miss., Canton—Following contractors estimating on \$30,000 Kings Daughters Hospital: W. S. Rutter, Brookhaven; Currie & Corley, Raleigh; J. W. Garrett, 802 Belhaven St.; W. J. McGee & Son, W. G. Wetmore, all Jackson; Beckelheimer & Small, Hattiesburg; W. J. Rogers Lumber Co.; Lundberg & Hays, both Canton; S. G. Beaman, Greenville; Claude H. Lindsley, Archt., Lamar Life Bldg., Jackson.

Mo., St. Louis—St. Lou's Baptist Hospital, Dr. J. C. Bram, Supt., Garrison and Franklin Aves., have plans by Manske & Bartling, Inc., 410 N. Euclid Ave., for \$350,000 building, 4518 Washington Ave.; rein. conc., brick, stone and terra cotta, 4 stories and basement, 75x200 ft.

N. C., Raleigh—Edw. M. Harris, Mutual Tr. Bldg., Philadelphia, Pa., reported, erect \$400,000 general hospital as memorial to Jos. A. Harris; 100 beds.

Okl., Bartlesville—Washington County Bd. of Health, G. C. Clark, Pres., plans tuberculosis hospital.

Tex., Dallas—Dr. E. O. Rushing, Medical Arts Bldg., may erect \$125,000 diagnostic clinic and sanitarium, Gaston Ave.; 52 rooms.

Tex., Laredo—Mercy Hospital, receiving bids for brick, tile, rein. conc. and cast stone addition; 3 stories, about 64x45 ft., wood, tile and comp. floors, \$80,000; M. S. Ryan, Archt., Wilcox Bldg. 1-26

Tex., Rusk—State Bd. of Control, R. B. Walthall, Chmn., Austin, receives bids May 8 for fireproof ward bldg. State Hospital for Insane; Page Bros., Archts., Austin Natl. Bk. Bldg.; Austin; E. B. Snelling, Rusk, estimating. 4-19

Hotels and Apartments

Ala., Decatur—W. K. McNeill soon let contract for 10-apartment, Ferry and Lafayette Sts.; Spanish type.

Ark., Rogers—A. L. Lane, Gleason Hotel, Little Rock, erect \$140,000, 5-story, brick, fireproof hotel; John Parks Almond, Archt., Boyle Bldg., Little Rock. 2-23

D. C., Washington—H. A. Church, 3654 New Hampshire Ave., N. W., erect \$12,000, 2 story, brick flat, 717 Rock Creek Church road.

D. C., Washington—Gelman & Hayes, 45 Tenth St., N. E., erect \$45,000, 4-story, brick, tile apartment, 317 Tenth St., N. E.

D. C., Washington—Kellar & Goldsmith, Edmonds Bldg., erect \$200,000, 5-story, 164x160 ft., conc. brick, tile apartment, 4115 Wisconsin Ave., N. W.; Geo. T. Santmyers, Archt., 917 15th St., N. W.

Ga., Augusta—W. R. Barringer & Son erect 100-room addition and remodel Richmond Hotel; fireproof, rein. conc., brick, built-up roof, steam heat, new entrance, 3 elevators; \$200,000; Johnson & Brannan, Archts., Peoples Natl. Bk. Bldg., Lynchburg, Va. 4-19

Ky., Lexington—Mrs. L. W. Baird, 229 S. Lime St., erect 16-room apartment on Lexington Ave.

Ky., Louisville—Holman McCawley, 615 Louisville Trust Bldg., has permit for \$10,000, brick veneer apartment, 4930 Southern Parkway.

La., New Orleans—B. G. Carbajal, Inc., Hibernia Bldg., Nicholas G. Carbajal, V. P., plans to erect 25-story Bernmarc Hotel, Canal St. and Loyola Ave.; Emile Weil, Archt., Whitney Bank Bldg.

Miss., Greenville—Greenville Hotel Corp. plans \$200,000, 6-story, 88x108 ft., brick hotel, Washington Ave. and Edison St.; H. W. Lathrop, Archt.-Supvg. Engr.; W. H. P. Reid, Asso. Archt.

Miss., West Point—Weiss, Dreyfous & Seifert, Archts., Maison Blanche Bldg., New Orleans, preparing plans for \$250,000, 100-room, 8-story, rein. conc., brick, steel, stone trim and fireproof hotel; steam heat, 2 electric elevators.

Mo., St. Louis—John H. Allex, 4503 Kings-highway, N. E., erect \$15,000, 2-story and basement, 36x43 ft., apartment, 4434 Kings-highway, N. E.; Jos. D. Standish, Archt., 7219 Lyndover Ave.

Mo., St. Louis—A. Mayer Realty Co., 4608 Gravois Ave., erect \$100,000, 3-story and basement, 69x124 ft., brick, terra cotta, cut stone trim store and apartment, Wallace and Morganford Sts.; C. E. Etz, Archt., 223 Title Guaranty Bldg.

Mo., St. Louis—Milford Realty and Investment Co., care C. E. Etz, 223 Title Guaranty Bldg., erect 3-story and basement, 78x105 ft., brick apartment, Maury and Flad Aves.

Mo., St. Louis—H. C. Felter, Felter Hardware Co., 5166 Easton St., erect \$850,000, 11-story apartment, 4615 Lindell Blvd.; 60-car garage; David R. Harrison, Archt., Arcade Bldg.

Mo., St. Louis—Morocco Finance Co. erect \$65,000, 3-story, 54x130 ft., brick tenement, 507 Clara St.; conc. roof, steam heat; McKelver-Carter Co., Contr., both 3800 W. Pine St.

N. C., Charlotte—Paul R. Younts, Inc., Bldgs. Bldg., has permit for \$15,000, 16-room frame apartment, 204 Tremont Ave.

Okl., Tulsa—Knight Realty Co., erect \$12,000, 2-story, brick apartment, 1715 S. Quincy Ave.

Okl., Tulsa—Fisher & Erickson erect \$35,000, 3-story, 42x82 ft., brick apartment; L. H. Ruggles, Archt., Robinson Bldg.

Tenn., Memphis—Mrs. C. E. Wessels erect \$20,000, 2-story and basement, 50x60 ft., brick veneer apartment, Jefferson Ave.; Estes W. Mann, Archt., 203 Cotton Exchange Bldg.; bids in.

Tenn., Memphis—William White & Co., 130 Monroe St., reported, erect \$800,000, 8-story cooperative apartment, Manassas, Court and Madison Aves.; 8 stories; Hanker & Cairns, Archts., 123 S. Court St.

Tenn., Nashville—Mrs. C. L. Davis erect \$10,000, 13-room, brick apartment, 20th and Bernard Sts.

Tenn., Nashville—Dr. G. H. King erect \$100,000, 24-apartment, 23d Ave. and Fairmount Drive, Acklen Park; Tudor Gothic type, fireproof, elevators, steam heat, mechanical refrigeration, garage; C. K. Colley & Co., Archts., Fourth and First Bldg.

Tex., Fort Worth—V. C. Davey erect \$15,000, 2-story, brick veneer apartment, 3762 W. 7th St.

Tex., Houston—H. Seltzer, 1901 Dennis St., has permit for two 8-apartments, 1902-06 Truxillo St.; \$25,000.

Tex., Houston—C. C. Young, 110 Main St., erect \$25,000, 2-story, frame, brick veneer, stone trim, 12-apartment, Louisiana St. and Pease Ave.; Chas. P. Jones & Co., Archts., Finz Bldg.

Tex., Houston—J. Segrato, 1902 Le Land St., has permit for \$17,000, 2-story, brick veneer, 8-apartment.

Tex., Junction—Junction Hotel Co., A. E. Loeffler, Pres., has low bid at \$29,884 from W. C. Trailkill for \$35,000, 2-story, 5.10x79.6 ft., stucco, brick, conc., cast stone trim addition; Adams & Adams, Archts. 4-26

Tex., Luling—Armstrong Bros., Hondo, purchased Wilson Hotel; remodel and change name to Hotel Armstrong.

Tex., San Angelo—B. B. Hail receives bids about June 1st for 14-story, \$1,000,000 Hilton Hotel, E. Twohig and S. Oakes Sts.; rein. conc., brick and stone; Anton F. Korn, Jr., Archt., Thomas Bldg., Dallas; B. M. Morgan, Asso. Archt., San Angelo Natl. Bank Bldg.; Hilton Hotel Co., Dallas, lessee. 4-26

Miscellaneous

Fla., Macclenny—Woman's Club soon start work on \$10,000 building.

Fla., Miami Beach—Bath Club, Harry Mansfield, Sec., receives bids May 4 to enlarge and remodel kitchen, new locker room, lounge, erect 60 canabars; \$75,000; Robt. A. Taylor, Archt., 325 Espanola Way. 4-19

Ga., Waycross—Women's Club, Mrs. Jack Williams, Chmn., Comm., plans auditorium, seat 2500.

Mo., St. Louis—Humane Soc., of Missouri, 1618 Carr St., erect \$30,000 animal shelter.

Tex., El Paso—Casa del Rio Development Corp., Warren Pilcher, 721 First Natl. Bank Bldg., erect \$500,000 Spanish type hotel and club; Albert C. McArthur, Archt., Phoenix, Arizona.

Tex., Houston—Faith Home Directors erect building, Brunner and Memorial Drive, to contain offices, board rooms, infirmary, isolation and observation quarters, clinic investigation and case work department, kindergarten and play room, staff quarters, central kitchen and heating plant; also plans number cottages; John Staub, Archt., Second Natl. Bk.

Tex., San Angelo—Jack Nance, owner Crescent Club, Abilene, soon start work on Brentwood Golf Club building; stucco, 9-hole golf links.

Railway Stations, Sheds, Etc.

Fla., Williston—Seaboard Air Line Rwy., W. D. Faucette, Ch. Engr., Norfolk, plans depot.

Tex., Progresso—San Benito & Rio Grande Valley Rwy. Co., G. H. Winsor, Pres., San Benito, erect \$11,000, stucco, freight and passenger station; 6400 sq. ft. gravel platform, 16,200 sq. ft. gravel driveway, \$5000 loading track.

Schools

Ala., Fairfield—Bd. of Education, J. T. McLaughlin, Pres., receives bids May 16 for \$200,000 high school; 3 stories, 15 classrooms, brick, stone trim, auditorium to seat 1000; plans at office Denham & Denham, Archts., 1220 Comer Bldg., Birmingham. 4-12

Ark., Ashdown—School Bd. plans \$50,000, 2-story, brick building.

Ark., Black Rock—School Bd., R. W.

Moore, Supt., receives bids May 10 for \$16,000 school.

Ark., Subiaco—Subiaco Abbey and College Trustees rebuild burned structures, 12-29-27

Ark., Waldron—School Bd., Chas. Snowden, Supt., erect school to replace structure burned at loss of \$25,000.

D. C., Washington—St. Anthony's School, 3414 Twelfth St., N. E., has permit for \$50,000, 2-story and basement, brick annex.

Fla., Bell—Bell Special Tax School Dist. erect \$45,000 building; Mrs. M. H. Johnson, Gilchrist County Supt. of Schools, Trenton.

Fla., Green Cove Springs—Orange Park School Dist. voted \$25,000 bonds; P. L. Tippins, Clay County Supt. of Public Instruction. 4-5

Fla., La Crosse—Alachua County Bd. of Public Instruction, E. R. Simmons, Supt., Gainesville, erect \$50,000, 2-story, 78x65 ft., 8-classroom school; brick, conc. and wood floors, comp. roof; C. H. Glass, Archt., 302 Franklin St., Tampa; bids in.

Fla., St. Augustine—State Board of Control, P. K. Yonge, Chmn., Tallahassee, indefinitely postponed taking bids for enlarging dining room, Florida School for Deaf and Blind. 3-29

Ga., Ambrose—Ambrose Consolidated School Dist., M. L. Day, Treas., voted \$20,000 bonds. 4-12

Ga., Augusta—Bd. of Education, L. B. Evans, Sec., received low bid at \$45,450 from Palmer-Spivey Construction Co., 124 Eighth St., for \$50,000, 2 story and basement, brick, 12-classroom addition, Tubman High School; comp. roof, conc. and wood floors; Willis Irvin, Archt., S. F. C. Bldg. 4-19

Ga., Locust Grove—Locust Grove Institute, Dr. Claude Gray, Pres., remodel buildings, erect Gray Hall, gymnasium, central heating plant, dining hall, additional barracks, auditorium.

Ga., Manchester—Bd. of Education, I. N. Davis, receives bids May 9 for 1½-story, 166x75 ft., brick veneer, art stone trim high school and one-story and basement, 78x57-ft. brick and stucco grammar school; \$35,000; steam heat; plans at office Daniell & Bentell, Archts., Healey Bldg., Atlanta. 3-1

Ga., Plainville—Plainville Consolidated School Dist. voted \$10,000 bonds. 4-5

Ga., Savannah—Bd. of Education, O. B. Strong, Supt., receives bids May 8 for \$175,000, 3-story, 23-room and auditorium, rein. conc., brick, stone trim school, Battey and 49th Sts.; conc., tile, terrazzo floors, built-up roof, steam heat; plans at office Levy & Clarke, Supvg. Archts., Blum Bldg. 4-26

Ga., Thomson—Bd. of School Trustees plan voting in May on approx. \$100,000 bonds for brick veneer school; Wm. J. J. Chase, Archt., 140 Peachtree St., Atlanta. 4-26

Ga., Vidalia—School Bd., W. L. Davis, Supt., erect \$45,000 brick building; comp. roof, conc. and wood floors; Greer & Biggers, Archts., Barnett Bk. Bldg., Jacksonville.

Ky., Louisville—Bd. of Education, Samuel D. Jones, Bus. Mgr., considering site for Louisville Male High School.

Ky., Louisville—Jefferson County Bd. of Education, W. S. Kemp, Bus. Dir., erect 4 schools; \$85,000; opens bids May 12, 19 and 26, and June 2; Arthur G. Tafel, Archt., 140 S. Third St.

Ky., Maysville—City, reported, planning vote on \$119,000 bonds.

La., Hessmer—Avoyelles Parish School Bd., Marksville, receives bids May 22 for \$60,000, 2-story, rein. conc., brick and stone trim, semi-fireproof school; comp. roof; plans at office; Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans. 4-5

La., Lake Charles—Calcasieu Parish School Bd., F. K. White, Supt., erect \$75,000 high school in Ward Three.

La., Mansura—School Bd. erect brick building; \$75,000 bonds voted.

La., New Orleans—Orleans Parish School Bd., City Hall Annex, receives bids May 18 for alterations and 10-room addition to 2-story, frame McCarthy School; plans at office E. A. Christy, Supvg. Archt. 4-26

La., Springhill—Webster Parish School Bd., E. S. Richardson, Sec., receives bids May 19 for \$70,000, 2-story, rein. conc., brick and stone trim school; plans at office Edw. F. Neild, Archt., City Bank Bldg., Shreveport. 3-22

Md., Baltimore—Bd. of Public Instruction, Dr. David E. Weglein, Supt., repair School No. 58, Woodberry Ave. near Hopper Ave.

Md., Baltimore—Public Improvement Comn. purchased 11-acre site on Barrington road near Garrison Blvd. for \$1,000,000 Forest Park High School; accommodate 2000

pupils; Dr. David Ed. Weglein, Supt., Public Instruction.

Miss., Eera—Town plans voting on \$20,000 school bonds.

Miss., Granada—City Council plans vote on \$10,000 school bonds.

Miss., Vidalia—Dedaux School Dist. erect \$12,000, frame building; Vinson B. Smith, Jr., Archt.; E. E. Norwood, Asso. Archt., Gulfport.

Mo., Brookfield—Brookfield School Dist., L. V. Crookshank, 923 N. Main St., receives bids about June 1 for \$160,000, 3-story, 184 x 128 ft., fireproof, brick and conc. high school; H. D. Pampel, Archt., Finance Bldg., Kansas City. See Want Section—Building Material and Equipment.

Mo., Bunker—School Bd. erect high school gymnasium; bonds voted.

N. C., Bynum—Chatham County Bd. of Education, Pittsboro, erect \$24,000 school; brick, rein. conc.; K. R. Markley & Co., Archts., 201½ E. Main St., Durham; bids in.

N. C., Graham—Alamance County Bd. of Education, M. E. Young, Supt., rejected bids for \$20,000 Alamance County Training School for negroes, Richmond Hill; have plans revised and call for new bids.

N. C., Statesville—City votes May 22 on \$350,000 bonds; erect schools and improve present buildings.

Okla., Castle—Bd. of Education erect \$10,000, one-story, stucco and frame gymnasium; Richard E. Richter, Archt., 1217 E. Ninth St., Okmulgee; bids in.

Okla., Comanche—Bd. of Education erect \$35,000, one-story, 50x110 ft., brick school; Tonini & Bramblett, Archts., Oklahoma City. 4-19

Okla., Holdenville—Catholic Congregation, care Father Murrtooth, erect \$25,000, 2-story and basement, 100x140 ft., stone school; H. Dimeno, Archt., Norman.

Okla., Holdenville—Bd. of Education erect two \$20,000 one-story and basement, 64x160 ft., brick and stone schools; Love & Kerr, Archts., Tulsa; bids in. 2-2

Okla., Medford—Consolidated No. 1 Dist. School Bd., Art Keller, receives bids May 12 for \$35,000, 9-room, brick school; plans at office P. H. Weathers, Archt., 1006 Oil Exchange Bldg., Oklahoma City.

Okla., Stillwater—Sigma Nu Fraternity, Oklahoma Agricultural and Mechanical College, has permit for \$40,000, English type chapter house; brick, cut stone trim, tile roof; plans by Dan Rue.

Okla., Webbers Falls—Bd. of Education, J. F. Beaver, Clk., erect grade school addition; M. T. Hardin, Archt., Muskogee.

S. C., Conway—School Bd. erect \$110,000 high school; Wilkins & Hopkins, Archts., Florence.

S. C., Green Sea—School Bd. erect \$27,000 high school; Wilkins & Hopkins, Archt., Florence.

S. C., Hartsville—School Bd. erect \$40,000 gymnasium addition to high school; Wilkins & Hopkins, Archts., Florence.

S. C., Rock Hill—Winthrop College erect \$75,000 library addition; also \$100,000 3-story classroom building; brick, stone trim, built-up roof, conc. tile and hardwood floors, stem heat; Edwards & Sayward, Archts., 101 Marietta Bldg., Atlanta.

Tenn., Chattanooga—Hamilton County planning vote in Aug. on \$1,000,000 bonds.

Tenn., Fayetteville—School Bd. erect \$80,000 school; Tisdale, Stone & Pinson, Archts., Ind. Life Bldg., Nashville; bids in.

Tenn., Knoxville—Following contractors estimating on \$170,000 rein. conc., tile and brick laboratory building, Dept. of Physics and Geology, University of Tennessee: Thos. D. Morris, Sec.; bids opened May 9: Weaver & McGill, General Bldg.; A. H. Whisman, 422 Front St.; A. R. McMurtry, 502 Island Home Ave.; Worsham Bros., S. D. Cox Co., Emory Construction Co., all Empire Bldg.; Gervin & Gervin, 220 W. Clinch St.; H. A. Gervin Construction Co., 3028 Glenfield Dr.; Kirkpatrick & Robertson, 749 Western Ave.; V. L. Nicholson Co., 102 W. Clinch St.; J. M. Dunn & Son, 245 Broad St., all Knoxville; Orr-Barnes Construction Co., Volunteer Life Bldg.; Rogers & Leventhal, 822 E. 11th St., both Chattanooga; Pyle Bros., Kingsport; J. T. Jackson Lumber Co., Price and Belt Line, Lexington, Ky.; Southern Ferro Concrete Co., 70 Ellis St., N. E., Atlanta, Ga.; Barber & McMurtry, Archts., General Bldg. 4-26

Tex., Abilene—Abilene Christian College erect 3-story, 23x115 ft., brick, tile, rein. conc., cast stone, fireproof administration

building; wood, cement, tile and terrazzo floors, marble partitions; Nichol & Campbell, Archts., Radford Bldg.; bids in.

Tex., Breckenridge—Breckenridge Ind. School Dist. voted \$40,000 bonds.

Tex., Houston—City votes May 29 on \$4,000,000 bonds for new buildings, additions and equipment; H. L. Mills, Bus. Mgr., Houston Ind. School Dist.

Tex., Huntsville—Sam Houston State Teachers' College, Dr. H. F. Estill, Pres., erect library.

Tex., La Marque—Bd. of School Trustees, R. L. Adkins, Pres., erect \$10,000, 2-class room and auditorium addition to school.

Tex., Millersview—School Bd. erect \$20,000 school; bonds voted.

Tex., Odem—Odem Ind. School Dist. Trustees receive bids May 14 for \$50,000, high school and \$10,000 grammar school; brick, rein. conc.; plans on file, Plan Room of Exchange, San Antonio, Valley Branch, San Antonio Builders Exchange, Fannin and Robertson Sts., San Benito; Hamon & Co., Archts., City Natl. Bank Bldg., Corpus Christi. 4-19

Tex., Pandora—Pandora Ind. School Dist. plans \$22,000 brick school.

Tex., Pearsall—School Bd. remodel one and two-story, brick, conc. and stucco school; Henry T. Phelps, Archt., Hicks Bldg., San Antonio.

Tex., San Antonio—Alamo Heights School Bd., Albert Steves, Jr., Pres., receives bids May 15 for 19-classroom elementary school; principal's office, teachers' rest room, clinic; manual training department in basement; also for 12-classroom junior school; library, home economics, main auditorium with balcony to seat 1100, combination stage and gymnasium, cafeteria, covered passages connecting buildings, heating plant for group of buildings; both brick, rein. conc., frame, hollow tile; plans at office Harvey P. Smith, Archt., Natl. Bank of Commerce Bldg. 4-26

Tex., San Antonio—South San Antonio Ind. School Dist., B. L. Smith, has low bid at \$45,900 from San Antonio Construction Co., Bldgs. Exch. Bldg., for one-story, 8-room and auditorium, brick, hollow tile, stone trim high school; Phelps & Dewees, Archts., Gunter Bldg. 3-15

Tex., Three Rivers—School Bd., W. J. Walton, Pres., erect \$50,000, one-story, 135x95 ft., brick and rein. conc. high school; Hamon & Co., Archts., City Natl. Bank Bldg., Corpus Christi.

Tex., Trinity—School Bd. erect \$80,000 building; bonds voted. 3-29

Tex., Tyler—Texas College Trustees plan teachers' training and manual art hall.

Stores

Ala., Birmingham—Phillips Home Building Co. erect \$10,000, one-story, 55x45 ft., tile and brick store, Smithfield; tar and gravel roof, cement floors; W. A. Rayfield & Co., Archts., Box 649. See Want Section—Building Material and Equipment.

Fla., Macclenny—A. D. Powers, Hotel Annie, erect tile and stucco store, Main St.

Fla., West Palm Beach—J. T. Havens has permit for 60x20 ft. store on Palm Beach Ave.

La., Monroe—Tony Danna, 717 DeSiard St., erect two one-story brick stores; \$14,000.

Md., Baltimore—Emanuel M. Davidove and Harry H. Goldberg, Equitable Bldg., purchased buildings at 612 and 620 Gilmore St. and plan improvements; Theo. Wells Pietsch, Archt., Amer Bldg.

Md., Baltimore—McCrorry Stores Corp., G. E. Muschert, 1107 Broadway, New York, remodel buildings at 117-21 N. Howard St.; \$100,000.

Md., Baltimore—Daniel Kleiman, 321 Calvert Bldg., has permit for 2 stores, 4907-09 Belair road.

Miss., Hattiesburg—Davidson Department Store, Main St., W. H. Nevins, Sr., Pres., plans 3-story building.

Mo., Kansas City—A. C. Black, 214 W. 73rd St. Terrace, has permit for \$100,000, one-story, 50x95 ft., brick store, 3507 Prospect St.

Mo., Poplar Bluff—Dalton's Home Furnishings, Inc., G. W. Dalton, Pres.-Gen. Mgr., erect \$155,000, 4-story, rein. conc. building to replace burned structure; Aegeter & Bailey, Archts., Railway Exchange Bldg., St. Louis. 4-26

Mo., Troy—Geo. McGregor erect \$30,000, 2-story and basement, 48x90 ft., brick store

and office building; O. J. Popp, Archt., 1528 Arcade Bldg., St. Louis.

N. C., Winston-Salem—Frank L. Blum & Co., 110 E. Second St., have permit to erect Gorrell Building, N. Liberty and N. Trade Sts.; \$90,000; 2 stories and basement, brick, stone and conc., limestone front.

Okla., Altus—J. R. McMahon erect \$50,000, 2-story, 75x140 ft., brick and rein. conc. store and office; F. W. Redlich, Archt., Tulsa; bids in.

Okla., Newkirk—W. S. Cline remodel 2 stores; brick, \$20,000; G. J. Cannon, Archt., Ponca City.

Okla., Oklahoma City—Harrison Smith Co., 711 N. Broadway, erect 2-story, brick and rein. conc. store; Harry Reynolds, Archt., Mercantile Bldg.

Tenn., Chattanooga—J. C. Guild, Gen. Mgr., Tenn. Electric Power Co., erect \$30,000, 25x160 ft., 3-story, brick building, 924 Market St., to replace burned structure occupied by Sherwin-Williams Paint Co. 4-26

Tenn., Memphis—J. Goldsmith & Sons erect 3-story, brick and steel addition and remodel interior of store; \$300,000; Hanker & Cairns, Archts.; bids in.

Tenn., Memphis—A. C. Gautier, 1523 Harbert St., erect one-story, 122x70 ft., brick store, Overton Park Ave. and N. Willett St.; Geo. Asumb, Archt., Dermon Bldg.

Tenn., White Bluffs—W. H. James erect 2-story and basement, 203x60 ft., brick and stone store; Carlton Brush, Archt., First and Fourth Bldg., Nashville.

Tex., Del Rio—S. H. Kress & Co., 114 Fifth Ave., New York, erect 3-story, 140x48 ft., brick, rein. conc., terra cotta store; tile and cement floors; E. J. T. Hoffman, Company Archt.

Tex., Edinburg—E. G. Gonzales erect \$10,000, one-story, 50x75 ft., conc., hollow tile and stucco store; Leroy Lane, Archt.

Tex., Houston—Arthur Silverberg, Silverberg Lumber Co., 3700 Washington Ave., erect \$10,000, 2-story, brick veneer store and apartment, 3616 Washington Ave.

Tex., Kingsville—Dr. H. Allison erect 2 or 4-story, brick, conc., cast stone store and office building; Dielmann & Levy, Archts., 217 Firman Bldg., Corpus Christi.

Tex., Lockhart—Chas. A. Ploeger remodel interior First Natl. Bank Bldg. for drug store; \$10,000.

Tex., Stanford—Bryant & Link Co. erect one-story, 85x150 ft., rein. conc. store; Kelwood Co., Archt., Travis Bldg., San Antonio.

Theaters

Fla., Lake Wales—Lake Wales Investment and Amusement Corp. erect \$100,000, one-story, 90x80 ft., brick theater; seat 1000; Geo. E. Jacobs, Archt., Lakeland.

La., Monroe—Herman and Sig Masur, 900 N. Second St., erect \$50,000, 2-story, brick, stone trim store, DeSiard St.; plate glass window fronts on marble base; J. W. Smith and Associates, Archts., Ouachita Bank Bldg.

Md., Cumberland—Thos. H. Burke, Mgr., Liberty Theater, N. Liberty St., remodel and enlarge theater.

Md., Baltimore—Lyndhurst Corp., H. C. Poffenberger, Court Square Bldg., one-story, 145x70 ft., moving picture theater, Edmondson Ave. and Edgewood St.; seat 1500; 2 stores at entrance; 60x50 ft. library adjoining; brick, steel and concrete, slag roof; plan to start work by June 1.

Okla., Blackwell—Kennedy Bros.; theater; H. H. Mahler Co., Archts. (See Buildings Proposed—Bank and Office.)

Tex., San Angelo—H. B. Robb, 3853 Normandy St., Dallas, and others contract May 15 for theater seat 2000; Scott Dunne & Co., Archts., Melba Bldg., Dallas. (See Buildings Proposed—Bank and Office.) 3-29

Warehouses

Ky., Lexington—J. Morgan Gentry, 742 S. Broadway, erect \$25,000 to \$40,000 warehouse.

Mo., Kansas City—L. Leritz & Sons, 2616 Warwick Rd., erect warehouse, Main and 44th Sts.

Mo., St. Louis—N. O. Nelson Manufacturing Co., Boyle and Duncan Aves., erect warehouse, 150,000 sq. ft.

Tex., Houston—M. C. Parker & Co., 1919 Magnolia St., soon start work on office and warehouse, Roberts and Navigation Sts.; stucco, cast stone trim, clay tile roof; Harry D. Payne, Archt., 1915 Norfolk St., supervise construction.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Ga., Atlanta—Gate City Lodge No. 54, I. B. P. O. E. of W., P. E. Williams, Exalted Ruler, erect \$15,000 lodge bldg., Fort St. near Old Wheat St.; Wm. Burch, Contr.

Md., Hagerstown—Lodge No. 378, B. P. O. E., Potomac St., let contract to Geo. B. McWolf, 3 Court Place, to remodel and enlarge bldg.; 3-story brick addition in rear; C. E. Kountz, Archt., Young Bldg. 11-24

Mo., Poplar Bluff—Fraternal Opera Co., C. E. Langley, member, let contract to House & Treadway, Paragould, Ark., for 3-story bldg.; E. M. Weins, Archt. 4-12

Okla., Lone Wolf—Independent Order of Odd Fellows erect \$15,000 lodge bldg.; brick, 2 stories; stores on first floor; E. M. Rich & Co., Archts., Clinton; L. McKerracher, Mand, contract at \$13,750. 3-15

Bank and Office

Ark., Little Rock—Geo. W. Donaghey, Donaghey Bldg., erect \$450,000 store and office bldg., Markham and Main Sts., after plans by Geo. R. Mann, Wanger & King, Archts., A. O. U. W. Bldg.; contract let to Gordon Walker; brick, marble and terra cotta trim, 9 stories and basement, set-back type, terrazzo corridor floors, elevators. 1-5

D. C., Washington—Trinity Towers Corp. purchased St. Stephen's P. E. Church property, 3017 14th St. N. W.; Rev. Geo. F. Dudley, Pastor; plans 8-story office bldg.; stores on first floor; Miller Engineering Corp., Contr., 815 15th St. N. W.

Tex., Houston—Bedford-Carthage Stone Corp., Runnels and Belt Sts., has stone contract for \$4,500,000 office bldg., Main and Rusk Sts., for Jesse H. Jones; Alfred C. Flinn, Archt., Bankers Mtg. Bldg.; Kenneth Franzheim, 345 Madison Ave., and J. E. R. Carpenter, 589 Madison Ave., both New York, Consult. Archts.; American Construction Co., Contr., Gulf Bldg., Houston. 3-29

Churches

Ala., Auburn—Baptist Church let contract to Daniel Lumber Co., LaGrange, Ga., for \$50,000 brick bldg.; steel roof truss, wood deck, 2 stories, 45x95 ft., wood and cement floors, comp. shingle roof; Warren, Knight & Davis, Archts., Empire Bldg., Birmingham. See Want Section—Building Material and Equipment. 4-12

Ark., Helena—Roman Catholic Church, Rev. Henry Threshing, Pastor, erect \$10,000 mission house; brick, 1 story, comp. roof, pine floors; L. H. Blair, Contr., Marianna.

Ark., Helena—L. H. Blair, Marianna, has contract for \$10,000 bldg. for Catholic mission for negroes.

D. C., Washington—St. Stephen's P. E. Church, Rev. Geo. F. Dudley, Pastor, 3017 Fourteenth St. N. W., let contract to Miller Engineering Co., 815 Fifteenth St. N. W., for \$225,000 church, Sunday school and parish house; brick, terra cotta trim, seat 950, R. Tappan, Archt., Forest Hill Gardens, Long Island, N. Y.; 3-manual organ from George C. Kilgen & Son, St. Louis, Mo. 4-19

Ga., Savannah—Lutheran Church of the Reformation, Rev. C. A. Linn, Pastor, remodel Sunday school, Bull and State Sts.; stucco, 2 stories and basement, comp. roof, steam heat; \$25,000; F. McRae, Contr., 11 Drayton St.

La., Scott—Roman Catholic Church, Rev. Jos. E. Montclair, Pastor, let contract at about \$25,000 to Eugene Guillot, New Iberia, for bldg.; hollow tile, frame and stucco, rein. conc. foundation, wood floors, slate roof; Wm. R. Burk, Archt., Balter Bldg. 1-5

Md., Baltimore—Baltimore Monthly Meeting of Friends erect \$75,000 bldg., 4930 Charles St. Ave.; brick, 2 stories, 130x50 ft., slate roof, steam heat; Mottu & White, Archts., 527 N. Charles St.; Thos. Hicks & Sons, Inc., Contr., 106 W. Madison St.

Md., Cumberland—Centre Street M. E. Church will let contract to Geo. F. Hazelwood, McFarlane Bldg., for \$75,000 parish hall and school; brick and conc., fireproof, 2½ stories, 50x127 ft., conc. and wood finish floors, built-up roof over conc.; address proposals on furnishings, equipment, etc., \$5000, to Geo. F. Sansbury, Archt., Cit. Natl. Bk. Bldg. See Want Section—Building Material and Equipment. 4-26

Miss., Grenada—Methodist Episcopal Church, South, erect \$100,000 bldg. under supervision of C. E. Lockett; brick, stone, tile, 3 stories, 59x100 ft., with 45x123-ft.

annex; conc., oak and pine floors, tile or asbestos roof, steam or hot air heat; address proposals on furnishings, equipment, etc., \$25,000, to Rev. J. H. Holder, Pastor. See Want Section—Building Material and Equipment. 4-19

N. C., Wilmington—Skinner Organ Co., Boston, Mass., has contract for \$30,000 pipe organ, First Presbyterian Church nearing completion.

Okla., Muskogee—Boulevard Christian Church erect \$60,000 bldg. by day labor, A. E. Griffith, Supt.; brick and conc., 2 stories and part basement, 86x24 ft., wood floors, copper roof; Dawson & Griffith, Archts., 1206 W. Broadway. 3-15

Okla., Ponca City—Church of The Nazarene, Rev. M. B. Dillingham, Pastor, let contract for \$30,000 bldg., S. Fourth St., to R. Sherbon. 12-29

Tex., Dayton—Methodist Church let contract \$32,501 to P. H. Fredricks, 1870 Courtlandt St., Houston, for church and Sunday school; 2 stories and basement, hollow tile and brick; Chas. P. Jones & Co., Archts., Binz Bldg., Houston. 4-26

Tex., El Campo—Baptist Church started work on \$25,000 bldg.; Jensen & Nelson, Contrs., Palacios.

Tex., Boerne—Protestant Episcopal Church, H. O. Adler, Chmn., Bldg. Comm., let contract to Henry Gombert for conc. and native stone bldg.; 1 story and basement, about 80x45 ft.; Herff & Jones, Archts., San Antonio Loan & Tr. Bldg. 3-29

Tex., Port Arthur—Roman Catholic Church, Portacres, erecting 1-story brick veneer building.

City and County

Ark., Morrilton—Conway County Bd. of Commrs. let contract at \$110,000 to E. W. Jenkins, 215 W. Second St., Little Rock, for courthouse; matt face brick, stone, 2 stories and basement, 65x110 ft., oak and conc. floors, built-up roof, steam heat; Frank W. Gibb Archt., Gazette Bldg., Little Rock. 3-15

Dwellings

Ala., Birmingham—Dave Holdberg, 915 S. 40th St., erect \$12,000 brick veneer residence, S. Tenth Ave. near Essex St.; 1 story, 57x54 ft., comp. roof, furnace heat; Woolard & Lynch, Contrs., 2117 N. First Ave.

Ala., Birmingham—R. W. Kirkland, 1316 N. 20th St., erect \$25,000 brick veneer and sand stone residence; 2 stories and basement, 75x34 ft., slate roof; Warren, Knight & Davis, Archts., Empire Bldg.; L. E. Ford, Contr., 2117 N. First Ave.

Ark., Conway—L. A. Munn erect brick veneer residence; 1 story, 33x56 ft., oak floors, comp. roof, tile bath; City Lumber Co., Contr., care E. A. Holter.

Ark., Little Rock—J. S. Pool, 321 Ridgeway St., erect \$10,000 residence and garage, 5021 Crestwood Drive; brick veneer, 2 stories, oak floors, tile roof and bath; Bracy Real Estate & Building Co., Contr., Rector Bldg.

Ark., Paragould—Wm. Meriwether erecting tile and stucco residence, Third and Garland Sts.; 2 stories, oak floors, comp. shingle roof, tile bath; E. M. Weems, Contr.

D. C., Washington—W. C. Miller, 1905 New Hampshire Ave. N. W., has permit for \$12,500 dwelling, 4524 Cathedral Ave., N. W.; 2 stories, brick and frame; also for \$8500 stone dwelling, 4534 Hawthorne St., N. W.; owners build.

Fla., Jacksonville—E. E. Anders, Blun Bldg., erect \$10,000 dwelling, Owen St.; brick veneer, 1 story; owner builds.

Fla., Miami Beach—Theo. Dickinson, 1600 Bay Rd., erect \$30,000 addition to residence after plans by Russell T. Pancoast; conc. and load-bearing tile, 2 stories, tile and wood floors, conc. foundation, tile roof; John B. Orr, Inc., Contr., 147 Northeast Sixth St., Miami. 4-20

Fla., Ocala—Mrs. Charles E. Sullenger erect 2 bungalows, W. Hale Ave.; 5 rooms; \$10,000; Lee Wilson & Co., Contrs.

Fla., South Jacksonville, Jacksonville—B. N. Inman, Sorrento Ave., erect 5 dwellings; 2 dwellings, Palmetto Ave. and Riviera St.; 2 at Walnut St. and Palm and 1 on Sorrento Rd., San Marco; Spanish type, 6, 7 and 10 rooms, brick veneer; \$42,000; A. N. Burkholder, Contr.

Fla., South Jacksonville—Dr. L. E. Bancroft erecting \$18,000 residence, San Marco.

Ga., Atlanta—Eugene V. Haynes, Haynes Manor, erect \$15,000 residence after plans

by A. F. N. Everett, Candler Annex; brick, 2 stories and basement, hardwood and tile floors, tile roof, steam heat; owner builds. 4-26

Ga., Atlanta—Mrs. Lena K. Armstrong, 1023 Lanier Blvd., N. E., erect \$10,000 duplex; brick veneer, 2 stories, hardwood floors, comp. shingle roof, hot air heat; owner builds.

Ga., Atlanta—S. G. Galloway, 301 Gould Bldg., erect 2 brick veneer dwellings, 383-99 Seventh St., N. E.; 1 story, 7 rooms and bath, hardwood floors, comp. roof, hot air heat; \$13,000; owner builds.

Ga., Atlanta—D. I. Crawley, Inc., 712 Cit. & Sou. Bk. Bldg., erect 2 brick veneer dwellings, 827-31 Durant Place, N. E.; 1 story, 7 rooms and bath, hardwood floors, hot air heat, comp. roof; \$10,000; owner builds.

Ga., Augusta—Augusta Factory, 1228 Fenwick St., let contract to T. G. Brittingham, 651 Broad St., to install new plumbing in 110 dwellings; gen. constr. work by Sibert & Robinson.

Ga., Columbus—T. G. Reeves, 1130 Fifth Ave., let contract for \$13,000 residence to W. C. Whitaker, 1121 First Ave., brick veneer, 1 story and basement, hardwood floors, slate roof; T. Firth Lockwood, Archt., Murrah Bldg. 3-29

La., New Orleans—J. J. Gazin, 407 N. Broad St., erect double raised residence, Grand Route St. John near White St.

La., New Orleans—John Tobin, 2804 D'Abadie St., erect single raised residence; J. M. Werling, Contr., 2909 St. Bernard Ave.

La., New Orleans—M. J. Valentino, 2364 Urquhart St., erect single raised residence, Pierce St. near Orleans St.; Geo. J. Lupo, Contr., 5406 Hawthorne St.

La., New Orleans—Aetna Homestead Assn., Hibernia Bldg., erect 2 bldgs., Short and Fern Sts. and Joseph and Octavia Sts.; \$22,000; Kenneth J. Colomb, Contr., 3522 La. St.

La., New Orleans—Estrade & Safell, Contrs., 7226 Washington Ave., erect 2 duplexes, 2508-14 Robert St.

La., New Orleans—Saputo & Governali, Contrs., 601 N. Claiborne Ave., erect double raised dwelling, Hagan Ave. and Rendon St.

La., Vinton—C. Burt Hampton remodel and enlarge residence; \$10,000; Hub Reed, Contr.; work started.

Md., Baltimore—John Welsh, 11 E. Fayette St., erect 10 frame dwellings, 3129 Milford Ave. and 400 block Westgate Rd.; 2 stories, slate roofs; \$34,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—Woodland Realty Co. erect 2 brick dwellings and garages, 3203-04 Overland Ave.; 1½ stories, 24x37 ft. and 20x20 ft., slate roofs, hot water heat; \$10,000; S. M. Pistorio, Archt., Harford Rd. and Weaver Ave.; owner builds.

Md., Baltimore—Talbot J. Albert, Garden Apts., let contract to Ralph MacMurray, 9 E. Pleasant St., for \$18,000 residence, 1012 Winding Way; stone, 2½ stories, 49x56 ft., oak, tile and edge-grain Georgia pine floors, elect. refrigerator; slate roof; Buckler & Feinbogen, Archts., 325 N. Charles St. 4-26

Md., Baltimore—Fred C. Stauffen, 461 Lake Ave., erect \$10,000 residence, 605 Somerset Rd.; 2½ stories, 28x29 ft., slate roof, hot water heat; Harry Michelman, Archt.; A. Arnold & Son, Contrs., 2929 Clifton Ave.

Md., Baltimore—Fred H. Eisenbrandt, 15 E. Fayette St., erect stone and stucco residence, Bristol Rd., Stoneleigh; H. A. Stilwell, Archt.; Peyton B. Strobel Co., Contr., both 206 E. Lexington St.

Md., Baltimore—Mrs. M. C. Webb, 2332 E. Baltimore St., erect Colonial residence, Wendover Rd. near Charles St., Guilford; brick, 10 rooms, 3 baths; H. A. Stilwell, Archt.; Peyton B. Strobel, Contr., both 206 E. Lexington St.

Md., Baltimore—Walter F. Hidey, 3300 Liberty Hts. Ave., erect 2 frame dwellings and garages, 3607-08 Rosedale Rd.; 2 stories, 25x29 ft. and 26x28 ft., slate roofs, hot water heat; \$10,000; plans and constr. by owner.

Md., Baltimore—Garden Homes, Inc., 34 Knickerbocker Bldg., Herbert J. West, Pres., erect number dwellings; 7 under way; \$300,000; plans by various architects; owner builds. See Want Section—Building Material and Equipment.

Md., Baltimore—Harold C. Hann, 4 Queen Anne Rd., erect \$10,000 stone residence, 105 Taplow Rd.; 25x35 ft., slate roof, hot water heat; Lewis & Westenhaver, Archt.; Edgar A. Levi, Contr., 909 North Ave.

Mo., Clayton, St. Louis—Owen P. Galbreth, 6320 Southwood St., erect \$10,000 residence, Wydown Forest, 33x40 ft.; owner builds.

Mo., St. Louis—S. Miller erect 2 brick dwellings, 5023-25 Durant St.; 1 story, 24x44 ft., comp. shingle roofs, hot air heat; \$10,000; L. H. Souder, Archt.; Stock-Scott Realty Co., Contr., all 3711 Shreve St.

Mo., St. Louis—J. Cooper, 5142 Rosa St., erect \$10,000 residence, 4310 Michigan Ave.; brick, 1 story and basement, 48x23 ft., hardwood floors, tile bath, hot air heat; Leo K. Milberger, Archt., F. C. Sipp, Contr., all 5142 Rosa St.

Mo., St. Louis—Geo. Fanter, care Clarence E. Stevens, Archt., erect \$12,000 brick residence, 6400 Lucille Ave.; 2 stories and basement, 24x50 ft., hardwood floors, comp. shingle roofs, hot air heat, tile bath; Art-Bilt Construction Co., Contr., both 5417 S. Grand Blvd.

Mo., St. Louis—Fredk. F. Fischer, 7031 Forsythe St., Pres., Fischer Meat Co., erecting English type residence, Fair Oak Estates; 2½ stories; Nolte & Nauman, Archts., Fullerton Bldg.; Geo. F. Bergfeld Co., Contr.

Mo., St. Louis—B. W. Heinz, 8642 Kingshighway, erect \$10,000 brick residence, 8504 Church Rd.; 1 story and basement, 24x45 ft., hardwood floors, asphalt shingle roof, tile bath, hot air heat; Albert Meyer, Archt., Cent. Natl. Bk. Bldg.; Klas & Gleseking, Contrs., 700 Baden St.

Mo., St. Louis—Kratz Realty Co., 4067 S. Grand St., started work on 20 frame bungalows near Holly Hills.

Mo., St. Louis—W. J. Maninon, 5938 Summit Ave., erect brick residence, No Point subdivision; 1 story and basement, 43x27 ft., oak and tile floors, asphalt shingle roof, hot air heat; Geo. B. Willmering, Archt., Emma Bldg., W. Florissant Ave.; owner builds.

Mo., St. Louis—Wm. Meyer & Son, 3913 Blair Ave., have contract for brick dwelling, Colgate Ave., University Park; 1½ stories and basement, 34x33 ft., oak floors, tile roof, and bath, hot water heat; L. J. Graham, Archt., 4885 Natural Bridge Rd.

Mo., St. Louis—Saml. Stein, 6325 Clayton Rd., remodel and enlarge residence; hardwood floors, slate roof; Chas. R. Greene, Archt., Buder Bldg.; Schroeder & Greulich Construction Co., Contr., 3111 N. Grand Blvd.

Mo., St. Louis—J. A. Etter, 4710 Delor St., erect 2 brick dwellings, 6113-21 S. Grand Ave.; 2 stories, 25x41 ft., tile roofs, hot water heat; \$14,000; H. Tyerr, Archt., 3447 Finkman St.; owner builds.

Mo., University City, St. Louis—W. O. Boellner, St. Charles, erect \$10,000 residence, 416 Hanley Rd.; brick, 2 stories and basement, 39x27 ft., hardwood floors, stone foundation, hot water heat, tile roof; W. W. Rafferty, Contr., 615 Chestnut St.

Mo., University City, St. Louis—Sedgley Investment Co., 114 N. Seventh St., erect \$13,000 brick residence, 7426 University Drive; 2 stories and basement, 20x29 ft., tile roof and bath, hardwood floors, hot water heat; Nolte & Nauman, Archts., Fullerton Bldg.; owner builds.

Mo., University City—Geo. A. Capps, 761 Heman St., erect \$10,000 brick residence and garage, 556 Warren Ave.; 2 stories, 42.6x37.2 ft., tile or slate roof, vapor heat; Edw. B. Kelley, Archt.-Contr., 6625 Delmar Blvd.

Mo., University City, St. Louis—W. A. & P. E. Toohar, 5590A Page Blvd., erect \$12,000 brick dwelling, 7941 Kingsbury Blvd.; brick, 2 stories and basement, 25x30 ft., hardwood floors, tile bath, slate roof, hot air heat; Huger & Buecker, Contrs., 801 Wainwright Bldg.

Mo., University City, St. Louis—F. V. Woodlock, 6649 University Dr., and Peterson Construction Co., 6346 Delmar Blvd., erect \$10,000 dwelling, 7416 University Drive; brick, 2 stories and basement, 26x30 ft., hardwood floors, tile roof and bath, hot water heat; constr. by Peterson Company.

N. C., Charlotte—Rev. J. G. Garth, 411 Seavers Ave., let contract to Moretz Realty Co., Inc., 215 Piedmont Bldg., for \$10,000 brick veneer residence; 2 stories, 31x39 ft., oak floors, brick foundation, comp. roof; furnishings, equipment, etc., \$2500; work started.

Okla., Tulsa—Robt. S. Shade, Roberts Bldg., erect \$25,000 residence; brick, 2 stories and basement, 50x50 ft.; A. M. Atkinson, Archt., Mid-Continent Bldg.; G. D. Morrow & Son, Contrs., Kennedy Bldg.

S. C., Aiken—Allen Pinkerton, care Pinkerton National Detective Agency, New York, let contract for \$25,000 Colonial residence to C. D. Holley, Augusta, Ga.; frame, 2 stories, hardwood floors; Scroggs & Ewing, Archts., S. F. C. Bldg., Augusta.

S. C., Aiken—S. G. Flagg, Radnor, Pa., let contract at \$25,521 to Anderson & Stieffel

Construction Co., Aiken, for Colonial residence; frame, 2 stories and basement, 85x35 ft., hardwood floors, steam heat; Willis Irvin, Archt., S. F. C. Bldg., Augusta, G.

Tenn., Memphis—F. P. Kindall, N. Second St., erect \$20,000 brick veneer residence, E. Chickasaw Pkwy.; 2 stories and basement, 42x35 ft., oak floors, tile roof and bath, hot water heat; Geo. Mahan, Jr., Archt., Amer. Tr. Bldg.; C. M. Jacobson, Contr., First Natl. Bk. Bldg.

Tex., Cuero—J. J. Fischer started work on residence, Second Ave., Fischer addition.

Tex., Cuero—Mrs. W. B. McClung started work on residence, Courthouse St.; Alamo Lumber Co., Contr.

Tex., Dallas—Hamilton Lee, Turtle Creek, has contract for \$35,000 residence, 2625 Turtle Creek Blvd., for Arthur K. Garwick, 4414 Worth St.; work under way; Spanish type, tile and stucco, 2 stories; H. B. Thomson, Archt., Alamo Natl. Bk. Bldg., San Antonio, and Constr. Indus. Bldg., Dallas; Fred Gantatz, Asso. Archt.

Tex., Houston—Oscar Fridh, 2217 Brun St., started work on brick veneer residence, Southmore Blvd. near Alameda St.; 10 rooms, 2 stories.

Tex., Houston—Hugh Wilkin, 1708 Main St., erecting \$10,000 brick veneer duplex and garage, 1711 Waugh Drive, Rosemont; 2 stories, 10 rooms, 2 baths.

Tex., Houston—Thos. W. Menefee, Atty., Prince Bldg., started work on brick veneer bungalow, Oakdale St. near Dowling St.; 8 rooms.

Tex., Houston—H. A. Meyer let contract to T. B. Hubbard Construction Co., 1507 Shepherd St., for brick veneer residence, Live Oak St.; English type, 2 stories, 10 rooms; J. M. Glover, Archt., Bankers Mtg. Bldg.

Tex., Houston—C. S. Harrington, Petroleum Bldg., started work on \$12,000 brick veneer residence, 2408 Rosedale Ave.; 2 stories, 8 rooms; W. J. Goggan, Contr., Electric Bldg.

Tex., Houston—Mrs. Effie H. Pardue erect 2 dwellings, Milford St.; brick veneer, 9 rooms, 2 stories; \$20,500; Lightfoot Construction Co., Contr., 3103 Main St.

Tex., Port Arthur—Walter W. Glass, care McMullen & Glass Drug Co., 515 Procter St., erect English type residence; Chas. A. Hill, Archt.; B. A. Gipson, Contr.

Tex., Port Arthur—H. L. Warren, Contr., 419 Sixth St., plans number dwellings, 3500 block Magnolia Ave.

Tex., San Antonio—A. Schwitzer, care Campbell Lumber Co., 1337 S. Flores St., purchased 31 lots, Summit Ave., Woodlawn Park; work started \$17,000 two-story dwelling as first of 6 dwellings in first group; total probably \$500,000.

Tex., San Antonio—Jay DePuy, 712 Bldrs. Exch. Bldg., erect \$12,000 dwelling; hollow tile, 2 stories, 9 rooms; owner builds.

Tex., San Antonio—C. M. Kelley, 802 Nolan St., erecting \$13,000 residence, Steves Ave. and Palmetto St., Inverness; 8 rooms.

Tex., San Marcos—T. C. Johnson erect \$15,000 Georgian Colonial type residence; frame, 2 stories 9 rooms; Harvey P. Smith, Archt., Natl. Bk. of Commerce Bldg.; Albert Nolte, Contr., Seguin.

Government and State

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., let contract at \$15,490 to G. H. Shartzer, Dayton, O., for preliminary excavation for \$17,000,000 Department of Commerce bldg.; York & Sawyer, Archts., 100 E. 42nd St., New York; Edw. H. Bennett, Consit. Archt., 80 E. Jackson Blvd., Chicago, Ill.

Ga., Fort Benning—Constructing Quartermaster, Lieut. W. M. Allison, let contract at \$323,000 to Murch Bros. Construction Co., Rwy. Exch. Bldg., St. Louis, Mo., for Sections F and G of Cuartel Barracks, and at \$138,450 to Palmer-Spivey Construction Co., 414 S. Tyron St., Charlotte, N. C., for Ward Bldgs. Nos. 1 and 2 and connecting corridors A and B Post hospital; former 3 and 4 stories and basement, 258x50 ft. and 4 stories and basement, 284x50 ft.; fireproof, rein. conc. flat slab and beam, common brick walls, partitions and arches, stucco, Indiana oolitic limestone trim, tile and comp. roof, cement floors, kalamain doors, steam heat.

N. C., Fort Bragg—Constructing Quartermaster let contract at \$365,850 to W. P. Rose Co., Goldsboro, for 2 field artillery battalion barracks; rein. conc., brick and tile, 3 stories and basement, 340x39 ft. each, cement and mastic floors, conc. foundations, tile roofs; forced hot water heating, W. W. Dick; plumbing, Hunt Bros.; roofing and sheet

metal, Gate City Roofing Co.; millwork, Oettenger Lumber Co., all Greensboro, N. C.; elect. work, Thompson Electric Co., Raleigh, N. C.; misc. iron, Price-Evans Foundry Corp., Chattanooga, Tenn.

N. C., Raleigh—North Carolina State Fair, T. S. White, Pres., let contract at \$57,252 to John W. Hudson, Jr., Tarboro, for 3 main bldgs., State Fair Grounds, Raleigh-Durham Highway; well drilling to Hester Well Drilling Co.; stucco and tile; one, 144x80 ft., and two, 40x156 ft. each; 1 story, wood floors, conc. foundations, tile and tin and 5- and 4-ply combination roofs; \$58,000; elect work in gen. contract; Atwood & Nash, Inc., Archts.-Engrs., Chapel Hill.

Tex., Crosbyton—E. H. Hendricks started work on \$25,000 postoffice, store and office building; brick and tile, plate glass, 1 story, 85x84 ft., asbestos roll roof; Ribble & Ribble, Archts., Lubbock; engineering and construction by owner. See Want Section—Miscellaneous.

Hospitals, Sanitariums, Etc.

Mo., Kansas City—St. Luke's Hospital, 44th St. and Mill Creek Rd., let contract to Long Construction Co., 600 Rialto Bldg., for L-shape wing; rein. conc., 89x130 ft.; immediate work to cost \$200,000; erect and equip first 2 floors, providing 50 beds, with possibility of 2 final stories being added; Keene & Simpson, Archts., Land Bk. Bldg.

Tex., Nacogdoches—City let contract to Campbell & White, Cooper, for \$60,000 fireproof hospital; 3 stories, 38x92 ft., cement and terrazzo floors, Johns-Manville built-up roof; Shirley Simons, Archt., Lufkin. See Want Section—Miscellaneous.

Hotels and Apartments

Ala., Birmingham—A. C. Blankenship, 312 Tuscaloosa Ave., started work on \$65,000 unit of apartment, Tuscaloosa Ave. and Green St., Arlington Pl.; electric refrigeration, steam heat; Nobinger & Hooks, Contrs.; Chas. H. McCauley, Archt.

Ala., Birmingham—Breen Realty Co., 316 N. 21st St., erect 2-story, brick veneer apartment, S. 30th St.; Jacob E. Salie, Archt., 503 Exchange Bldg.; Mackie Building Co., Inc., 615 S. 27th St., Contr.

Ark., Searcy—Hotel Mayfair started work on 22-room annex.

Fla., Daytona Beach—Walter C. Hardesty expend \$70,000 to complete hotel; work includes plastering, plumbing, electric work, interior trim; 3 stories, 149x294 ft., conc. brick walls, wood floors, comp. roof; plans being revised by M. L. Hampton Associates, 319 Congress Bldg., Miami.

Fla., Jacksonville—H. G. Patton and T. J. McRae, 2503 Market St., erect \$12,500, 2-story, brick veneer apartment, N. 16th St.; H. G. Patton, Contr., 221 E. 7th St.

Ga., Atlanta—Dr. Jas. E. Corry, 752 Candler Annex, erect \$10,000, 2-story and basement, brick apartment, 99 Greenwood Ave. N. E.; comp. roof, hardwood floors, steam heat; owner builds.

Ga., Brunswick—Following sub-contracts awarded on \$450,000, 215x125 ft., 3-story, 50-room hotel at Glynn Isle for Georgia Coastal Hotel Co., under construction by Sea Island Supply and Construction Co., Sea Island Bldg.; Plaster and stucco, Floyd Jennings & Co., 81 Harris St., N. E.; tile and terrazzo, Carmichael Tile Co., 142 Ellis St., N. E., both Atlanta; electrical, Byck Electric Co., 139 Bull St.; exterior frames, A. S. Bacon & Sons, Schwarz Ave.; plumbing, Seckinger & Garwes, 448 Drayton St., all Savannah; roofing, 448 Steedly, 111 W. Ashley St., Jacksonville, Fla.; frame and stucco on National Fabric, Mizner tile roof and art stone windows, walls covered with Solidon over masonite board; Addison Mizner, Archt., 337 Worth Ave., Palm Beach; Geo. Boll, of Sea Island Co., Asso. Archt.

Md., Baltimore—Following additional sub-contracts awarded for \$6,000,000 Lord Baltimore Hotel, Baltimore and Hanover Sts.: Oreole refrigerators, Ottenheimer Bros., Inc., Hillen and Fallway; sand, Catoen Sand Co., Halethorpe; rein. conc., pavement lights, Maryland Steel Products Co., Standard Oil Bldg.; folding partitions, Taylor Folding Partition Co., Washington, D. C.; furnishings, draperies, interior decorating, H. Chambers Co., 600 N. Howard St.; Consolidated Engineering Co., Contr., 20 E. Franklin St.; W. L. Stoddart, Archt., 50 E. 41st St., New York.

Mo., Columbia—Frederick Realty Co., F. W. Niedermeyer, Pres., 215 Pioneer Trust Bldg., Kansas City, started excavation on \$250,000, 5-story, 70x118 ft., rein. conc. and brick apartment; tar and gravel roof over c.c.n., vapor vacuum heat, one-passenger elevator; Fred Wallace, Archt., 618 Rialto

Bldg.; H. A. Noble, Security Bldg., both Kansas City. See Want Section—Building Material and Equipment. 4-26

Mo., Kansas City—B. L. Hoffman, 1200 Oak St., started work on 2-story, semi-fireproof, seventeen 4-room apartment, Main and 44th Sts.

Mo., Kansas City—Philip Minkin, 3637 Virginia St., started work on two 4-story fireproof apartments, 47th St. and Pennsylvania Ave.; 116-ft. frontage, 78 suites.

Mo., St. Louis—L. Arbine, 4325 Wilcox St., erect \$10,000, 2-story, 34x60-ft. brick tenement, 4930 Columbia St.; shingle roof, hot air heat; C. Christina, Archt.-Bldr., 5425 Columbia St.

Mo., St. Louis—Claxton Investment and Construction Co., Rwy. Exchange Bldg., erect nine 2-story, 34x43-ft. brick tenements, 5206-22 Von Phul St. and 1101-9 Linton St.; \$72,000; comp. roofs, hot air heat; owner, Archt.-Bldr.

Mo., St. Louis—B. Kapln, 900 N. Kingshighway, erect two 3-story, 29x228-ft. brick tenements, 5875-85 Plymouth St.; \$50,000; tar and gravel roofs, steam heat; Progress Building & Investment Corp., Archt.-Bldr.

Mo., St. Louis—C. Naert, 3222 Meramec St., erect four 2-story, 26x34-ft. brick tenements, 3808-32 Federer St.; \$24,000; slate roofs, hot water heat; owner, Archt.-Bldr.

Mo., St. Louis—H. Partheder, 5101 Cologne St., erect two 2-story, 18x48-ft. brick tenements, 5101-03 Cologne St.; \$10,000; tar and gravel roofs, hot air heat; M. Schieblendrein, Bldr., Hamburg, Mo.; L. Peters, Archt.

Mo., St. Louis—R. B. Rogers, 5977 Romaine Pl., erect \$10,000, 2-story, 36x45-ft. brick tenement, 5501-3 Partridge St.; comp. roof, warm air heat; B. Jarvis, Archt.-Bldr., 1450 Hodlamont St.

Mo., St. Louis—Karl Hilbert, 4017 Jennings Road, excavating for \$15,000, 2-story and basement, 24x47-ft. apartment, Hollywood Heights; Nash Construction Co., Contr., 212 N. Sarah St.

Mo., St. Louis—Progress Building Co., 4054 S. Grand Blvd., excavating for two 3-story and basement apartments, Plymouth Ave.; 29x230 ft., comp. roof, hardwood floors, terra cotta trim; C. E. Etz, Archt., 223 Title Guaranty Bldg.; owner builds.

Mo., St. Louis—Frank Siteman, 5832a Terry Ave., erect \$50,000, 2-story and basement, 120x45-ft. brick apartment, Goodfellow and Maffitt Sts.; Ben Shapiro, Archt., 4202 Holly Ave.

Mo., St. Louis—H. M. Straub, 110 N. 8th St., excavating for \$12,000, 2-story and basement, brick apartment, 4842 Penrose St.; Korte Realty Co., Contr., 110 N. 8th St.; Ben Shapiro, Archt., 4202 Holly Ave.

Mo., St. Louis—West End Realty & Construction Co., 3416 Union St., erect five 2-story brick tenements, 4829-41 Anderson St.; \$35,000; asphalt shingle roofs, hot air heat; C. L. Thurston, Archt., 130 Kenilworth St., Webster Groves; owner builds.

Mo., St. Louis—Ada Building & Investment Co. erect \$16,000, 3-story, 42x69-ft. brick tenement, 5356 Page St.; J. Rubin, Bldr., both 904 Chestnut St.; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—B. G. Franklin, 4208 Page St., erect \$10,000, 2-story, 34x50-ft. brick tenement, 5618-20 Labadie St.; pitch roof, hot air heat; G. Becker, Archt., 425 Georgia St.

Mo., St. Louis—L. Goldstein has permit for 2-story and basement, 46x93-ft. tenement, 2731-37 Burd St.; 3-story, 42x69 ft. tenement, 5019 Maffitt St.; two 2-story, 42x69-ft. tenements, 5847-51 Plymouth St.; 3-story, 41x103-ft. tenements, 6326 Oakland and 1004-08 Tamm St.; \$92,000; brick, tar and gravel roofs, steam heat; J. Rubin, Bldr., both 904 Chestnut St.; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—Union R. & C. Co., 5560 Easton St., erect five 2-story, 34x43-ft. brick tenements, 4001-21 Hydraulic St.; \$50,000; comp. tar and gravel roofs, hot air heat; M. D. Larner, Archt., 5560 Easton St.; owner builds.

Mo., St. Louis—A. Yung, 4634 S. Grand St., erect \$11,000, 2-story, 36x52-ft. brick tenement, 4052-54 Minnesota St.; A. Pauli, Bldr., 3663 Botanical St.; L. Haeger, Archt., 3844 Utah St.

Mo., University City, St. Louis—Audrey Realty Co. erect 3-story and basement, 100x111-ft. brick apartment and store, Delmar and Westgate Aves.; Huger & Buecker Construction Co.; Otto J. Krieg, Archt., all Wainwright Bldg.

Mo., University City, St. Louis—R. M. Berkley, 7230 Tulane St., started work on \$10,000, 2-story and basement, 27x44-ft. brick

apartment, 7055 Dartmouth Ave.; Berkley Construction Co., Contr., 6625 Delmar Blvd.

Okla., Chickasha—F. C. Hall and Powell Briscoe let contract to Edmiston Construction Co. for \$150,000, 7-story and basement, 50x102 ft. hotel; E. H. Eads & Co., Archts. 4-26

Tenn., Chattanooga—Frank H. Dowler, Pres., Frank H. Dowler Co., 619 Walnut St., started excavation for \$85,000 apartment, 419 High St.; 45x102 ft., 3 stories, brick, stone trim; Stewart Construction Co., Contr., Provident Bldg.

Tenn., Memphis—Thos. Banakes, N. Claybrook St., soon start work on \$20,000 2-story and basement, 36x64-ft. brick veneer apartment, 28 N. Claybrook St.; M. E. Golf, Contr., 3510 Faxon Ave.

Tenn., Memphis—L. Jacobson, 106 Beale St., erect two 2-story brick apartments, 684 and 690 S. 4th St.; \$18,000; Davis & Phillips, Contrs., 1937 Harbert St.

Tenn., Memphis—J. Frazer Smith, Goodwyn Institute Bldg., excavating for 2-story and basement, 48x129-ft. brick veneer apartments, 1295 and 1305 Beauregard St.; owner builds.

Tex., Beaumont—E. G. Edson, Edson Realty Co., let contract to Christy-Dolph Construction Co., Construction Industries Bldg., Dallas, for \$1,000,000, 20-story and basement, 120x120-ft. hotel, Pearl St. and Liberty Ave.; Georgia type, Indiana limestone and buff brick with polished gray granite base, weathered green slate roof; F. W. Steinman & Son, Archts., 411 San Jacinto Life Bldg., Beaumont, Archts.; Hedrick & Gottlieb, Asso. Archts., Post-Dispatch Bldg., Houston. 4-12

Tex., Galveston—International Tile Co., 1420 McKinney St., Houston, awarded contract for tile, marble and terrazzo work on \$1,000,000, 11-story, 400-room Buccaneer Hotel for W. L. Moody, Jr., 2028 D St.; Bellows-Macley Construction Co., Contr., 2101 F St.; Andrew Fraser, Archt., American Natl. Insur. Bldg. 4-19

Tex., Houston—Mrs. Effie H. Pardue erect \$54,500, 24-apartment, Dallas St. between Chartres and Hamilton Sts.; Lightfoot Construction Co., Contr., 3103 Main St.

Va., Ocean View—L. Barth Co., Inc., 44 Cooper Sq., New York, has contract at \$50,000 for furnishings for \$250,000 Nansemond Hotel being erected by The Nansemond, Inc., Otto Wells, Pres., Dickson Bldg., Norfolk; Davis Bros., Inc., Contr., 1716 Summit Ave., Richmond; Bernard B. Spigel, Archt., Norfolk. 2-23

Miscellaneous

Fla., Winter Garden—Bland & Foster have contract for one-story concrete and stucco library building.

Miss., Jackson—W. J. McGee & Son, Contrs., Fondren School, soon start work on additional story to Lamar Life Building annex for Belmont Cafe and University Club of Jackson; N. W. Overstreet, Archt., Miss. Fire Ins. Co. Bldg. 2-23

Mo., Washington—Nleburg & Vitt let contract to Lohmeyer & Shulte for 2-story, 19x51-ft. brick addition; Alexander B. Boyd, Archt., 878 Arcade Bldg., St. Louis. 4-5

Schools

Ala., Birmingham—Bd. of Education, D. E. McKinley, Bus. Mgr., let following contracts: Central Park School addition, \$38,500, M. C. Banks Co., 2501 First Ave. N.; 3-story, brick and stone Curry School, \$73,100, Honeycutt Co.; Robinson School addition, \$63,750, Earl Cline, 1011 16th St., Warren, Knight & Davis, Archts., Empire Bldg.; Wm. B. Ittner, Inc., Const. Archt., Bd. of Education Bldg., St. Louis, Mo. 3-29

Ala., Tuscaloosa—Partlow State School for Mental Defectives, W. D. Partlow, Supt., started work on \$100,000, 3-story, brick, fireproof building; all material purchased, 11-12

Ark., Fayetteville—Chi Omega Fraternity, University of Arkansas, started excavating for \$20,000 sorority house; 2 stories and basement, 37x78 ft., brick and tile, hardwood floors, comp. roof; Wages Bros. Lumber & Construction Co., Contr.; Chas. L. Ellis, Archt. 4-19

Ark., Fort Smith—School Bd., G. C. Hardin, Pres., let contracts as follows for furnishing and equipment for Senior High School: Atkinson-Williams Hardware Co., 100 S. Fourth St., at \$55,000 for hardware; Automotive Supply Co., \$15,000 for equipment in automobile mechanics department; Barnhart Bros. & Spindler, 710 Baltimore St., Kansas City, \$35,000 for equipment in printing department; J. H. Reddick, Contr., Kennedy Bldg.; Perkins, Chatten & Hammons, Archts., 160 N. LaSalle St., Chicago.

D. C., Washington—Majorie Webster School of Expression, 1400 Massachusetts Ave., started work on \$258,000, 3-story, 151x42-ft. conc. and tile, Spanish type school, 16th St. and Kalmia road; gymnasium, 101x60 ft., conc. floors, roof and foundation; Wm. P. Lipscomb Co., Contr., District Natl. Bank Bldg.; plumbing and vacuum heat (Pierce Butler boiler), Casey & Co., 1430 Irving St. N. W.; electric, H. P. Foley, 2020 Eye St. N. W.; plaster, A. W. Lee, 1336 New York Ave. N. W.; concrete, Fred Drew Co., 2525 Pennsylvania Ave. N. W.; tile, E. A. Rule, 3206 K St. N. W.; Col. P. M. Anderson, Archt.-Engr., 1040 Investment Bldg. See Want Section—Building Material and Equipment. 4-19

D. C., Washington—St. Gertrude's School of Arts and Crafts, Inc., Sister M. Olivia, 15th and Bunker Hill Rd., N. E., let contract to Schneider-Spliedt, 1416 F St., N. W., for \$73,000, 2-story, brick and cinder block school, 4801 Sargent Rd., N. W.

Fla., Aucilla—Jefferson County Bd. of Public Instruction, W. M. Scruggs, Supt., Monticello, erect school; Mark & Sheftall, Archts., 309 Clark Bldg., Jacksonville; Bowen Roofing Co., Jacksonville, contract at \$37,350. 12-9-27

Fla., Blountstown—Calhoun County Bd. of Public Instruction erect \$16,500, brick, 8-classroom and auditorium school, at Cypress Creek; H. C. Rhudd, Contr.

La., Gretna—St. Joseph Parochial School let contract to J. A. Haase, 916 Union St., New Orleans, for frame auditorium, cast stone work and stuccoing present 2-story building, comp. roof, plumbing, electric wiring; \$13,000; Wm. R. Burk, Archt., Balter Bldg., New Orleans.

La., New Orleans—Tulane University let contract at \$26,350 to Lionel F. Favret, Louisiana Bldg., for lockers, rest rooms, showers under stadium; Emile Well, Inc., Archt., Whitney Bank Bldg. 4-26

La., Pleasant Hill—Sabine Parish School Bd., S. H. Porter, Pres., Many, let contract at \$60,000 to Hedges & Hedges for 2-story, 60x150-ft., brick, frame, stone trim school; comp. roof, wood floors, steam heat; J. W. Smith & Associates, Archts., Ouachita Bank Bldg., Monroe. 4-5

Mo., Kansas City—Horner Institute, 3000 Troost Ave., has permit for \$90,000, 5-story, brick and conc. conservatory building, 3011 Harrison St.; Patti Construction Co., Contr., 626 Lee Bldg.

N. C., Canton—Haywood County Bd. of Education, W. C. Allen, Supt., Waynesville, erect \$21,000 brick grammar school, West Canton; W. M. Brown, Contr., Sylva.

N. C., Graham—Alamance County Bd. of Education, M. E. Yount, Supt., let contracts at \$17,212 and \$11,855 to Burrows & Lamb, Ashboro, for 7-room addition to Eli Whitney School and 4-room addition to Pleasant Grove School; Sam T. Johnson, Graham, at \$8916, for negro school in Pleasant Grove township.

N. C., Mount Airy—Surry County Bd. of Education, E. S. Hendren, Supt., let contract to Mitchell-Fowler Co., Pilot Mountain, for schools at Low Gap, North Elkin, Ararat and Dobson; \$45,000; one story, 110x90 ft., brick and tile; D. H. Cook, Archt.-Engr. 3-8

N. C., Parkton—School Bd. let contract to E. C. Derby, Fayetteville, for \$40,000, one-story, non-fireproof high school; G. R. Berryman, Archt., Raleigh. 4-19

Okla., Blackwell—Bd. of Education let contract at \$46,740 to A. F. Stewart & Co., for gymnasium and auditorium addition to high school; Joe I. Davis, Archt., both First Natl. Bank Bldg., Oklahoma City. 2-9

Okla., Nash—Bd. of Education erect \$45,000, one-story, 131x165 ft., brick school; Stanley Carmon, Contr.; R. W. Shaw, both Enid. 4-26

Okla., Norman—Ray Fisher awarded contract at \$23,000 for plumbing and heating for \$500,000 library at University of Oklahoma; C. M. Dunning Construction Co., Contr., 420½ N. Hudson St.; Layton, Hicks & Forsyth, Archts., Braniff Bldg., both Oklahoma City. 3-29

Okla., Oklahoma City—J. H. Frederickson Construction Co., Contr., Baltimore Bldg., started work on \$150,000 fine arts building at Oklahoma City University. 5-5-27

Okla., Roff—Hill & Hill, Contrs., Ada, soon start work on \$25,000, 9-room grade school to replace burned structure; Guy C. Reid, Archt., Magnolia Bldg., Oklahoma City. 4-26

S. C., Darlington—School Dist. No. 12, Darlington County, erect frame school; Courtney Construction Co., Contr., Box 823, Florence.

S. C., Ridgeland—Bd. of School Trustees, H. Klugh Purdy, Chmn., let contract to

Courtney Construction Co., Box 823, Florence, for 2 brick veneer schools; comp. roof, gum floors; J. H. Sams, Archt., Carolina Bk. Bldg., Columbia. 4-19

Tex., Kingsville—South Texas State Teachers' College let contract to Joe Jones for 75x35-ft. swimming pool; plans by manual arts department under direction L. J. Smith, director.

Tex., San Angelo—Following contracts awarded for furniture and equipment for San Angelo Junior College: Teachers' files, desks, stage scenery and drapes, \$8719, Bickley Bros., 306 N. Ervay St.; steel chairs, science equipment, cafeteria table and chairs, \$7284, W. C. Hixson, 1610 Bervan St.; cafeteria equipment, \$3085, Albert Pick Co., Athletic Bldg., all Dallas; tablet armchairs and window shades, \$4642, Southwestern Seating Co., 818 S. Presa St., San Antonio; opera chairs, \$2991, Wichita School Supply Co., 813 Ohio St., Wichita Falls; Thomas-Sable Construction Co., Contr., 1320 Masonic St., Dallas; Phelps & Dewees, Archts., Gunter Bldg., San Antonio. 9-15-27

Va., Staunton—Virginia School for Deaf and Blind let contract at \$77,825 to Harrisonburg Building & Supply Co., Harrisonburg, for primary building; heating, \$4836, W. Stuart Moffett.

W. Va., Charleston—Charleston Ind. School Dist., E. A. Babcock, Sec., let contract at \$181,796 to Wallace & Agnor for Garnett High School, Lewis, Dickinson and Shrewsbury Sts.; steel, conc., stone and brick; electric, \$7127; Schoolfield & Harvey, Kearse Theater Bldg.; Warne, Tucker, Silling & Hutchinson, Archts., Masonic Temple. 4-19

Stores

Ala., Birmingham—Jemison & Co., 221 N. 21st St., erect \$40,000, 2-story and basement, brick, stucco and stone store, Mountain Brook Estates; L. E. Ford, Contr., 2117 N. First Ave.; Jesse W. Green, Archt., 708 Education Bldg.

Ark., Little Rock—L. E. Whitmore, Donaghey Bldg., started excavation for \$12,000, one-story, 75x80-ft. brick store, 1728 Wright Ave.; gravel roof, conc. floors; W. D. Ault, Contr., W. Second St.; Wm. Dill, Archt., Boyle Bldg. 4-26

D. C., Washington—Chas. H. Tompkins, 1608 K St., N. W., has permit for \$40,000, 4-story brick and conc. store, 1216 K St., N. W.

Fla., St. Petersburg—C. Perry Snell, 401 Central Ave., let contract at \$409,000 to E. D. Ring for 2-story and basement, 130x100-ft., terra cotta, steel frame, fireproof, coral limestone exterior, Spanish type arcade, Central Ave. and Fourth St.; 6-story tower, terrace on roof, mezzanine, 25 shops, offices, cafeteria, elevator, terrazzo, marble floors, brass and bronze grills; piling, Raymond Concrete Pile Co., S. Mole St.; steel, Lukens Steel Co., Tampa; terra cotta, Atlantic Terra Cotta Co., 19 W. 44th St., New York; Klehnel & Elliott, Archts., Seybold Bldg., Miami, and St. Petersburg. See Want Section—Building Material and Equipment. 3-22

Ky., Louisville—Consolidated Realty Co., 231 S. Fifth St., started excavation for \$75,000 store, Fourth St.; 3 stories, 109x90 ft., brick, steel, frame, terra cotta, terrazzo and wood floors, comp. roof; terra cotta, Northeastern Terra Cotta Co.; steel, Grainger & Co., Ninth and Main Sts.; Otto D. Mock, Archt.; General Construction Co., Contr., both 231 S. Fifth St. 4-12

Ky., Louisville—F. W. Drybrough, 307 S. Fifth St., started work on \$100,000 building, 620-24 S. Fifth St., for office and display rooms; 159x52 ft., 3 stories, conc. steel, fireproof, conc. roof; Robt. N. Struck, Contr., First and Chestnut Sts.; heating, Modern Heating Co., 811 E. Broadway; electric work, James Electric Co., 134 S. Fourth St.; stone and granite, Peter & Burghard Stone Co., 13th and Maple Sts.; E. T. Hutchings, Archt., Heyburn Bldg.; Lewis & Warren, Engrs., Realty Bldg. 4-26

La., Shreveport—Dr. S. E. Powell, Calanthe Temple, erect \$23,000, 2-story brick store and office, 1854-60 Hotchkiss St.; R. G. Shisler, Contr., 2763 Fairfield Ave.; E. A. George, Archt., Gladders-Lane Bldg.

Miss., McComb—Kalif & Todd erect 2-story, brick store on S. Front St.; Howard McMillan started excavation.

Mo., St. Louis—F. Bandle, 4926 Ashby Pl., erect \$10,000, 2-story, 44x52-ft. brick store and tenement, 5774 W. Florissant St.; J. R. Wade, Archt., 7081 Pernod St.; owner builds.

Mo., St. Louis—Sears-Roebuck & Co., R. E. Wood, Pres., Chicago, completed excavation for \$800,000 store, 3708 S. Grand Blvd., for which Westlake Construction Co., Railway Exchange Bldg., has general contract;

all contracts to be awarded locally; 3 stories, 160 ft. square, conc. and wood floors, rein. conc.; Geo. C. Nimmmons & Co., Archts., 122 S. Michigan Ave.; M. C. Schwab, Engr., 30 N. Michigan Ave., both Chicago. 4-26

Okla., Oklahoma City—Following sub-contracts awarded on \$1,000,000 Harbour-Longmire Co. store, for which C. E. Huffman & Sons, 224 W. 23rd St., are contractors: Millwork, Oklahoma Sash & Door Co., 8 E. Grand St.; painting, R. W. Thompson; marble, Tibbs-Dorsey Co., 911 S. Walker St.; plumbing and heating, M. F. Fischer & Son; roofing and metal, Swanda Bros., 510 W. Second St.; tile, Oklahoma Tile Co., Colcord Bldg.; rein. steel, J. B. Klein Iron & Foundry Co., 1006 W. Second St.; metal doors and windows, Bissell Builders Supply Co., Colcord Bldg.; cement, Oklahoma Portland Cement Co., Traders Natl. Bldg.; stone, Bedford-Carriage Co., Rannels and Belt Sts., Houston, Tex.; art and plate glass, Pittsburgh Plate Glass Co., 101 Crawford St.; 10 stories, 75x140 ft., brick and conc., rein. struc. and misc. iron, conc. floors; Hawk & Parr, Archts., Cotton Exchange Bldg. 4-25

Tenn., Memphis—S. R. Lee, Empire Bldg., excavating for 2 and 4 story, 153x92-ft. brick, conc., steel store and apartment, Wellington Ave.; built-up roof, conc. and wood floors; Geo. Mahn, Jr., Archt., 700 American Bank Bldg.; owner builds.

Tex., Brownsville—Arthur Seybolt remodel store; \$10,000; Proctor & Dudley, Contrs.

Tex., Cuero—J. C. Penney Co., Inc., 330 W. 34th St., New York, started work on \$25,000, one-story, 50x110-ft. brick store, Main and Gonzales Sts.; Ed Wagner, Contr.; K. J. Leffland, Archt., both Victoria. 1-5

Tex., Plainview—O. M. Unger erect 70x125-ft. brick store, Broadway; conc. floors, terra cotta and stone trim; Canady & Stark, Contrs.; J. C. Berry, Archt., Amarillo.

Tex., San Antonio—John A. Dittmar, 416 College St., has permit for \$11,000, one-story, conc. and steel addition; Truscon Steel Co., Contr., Travis Bldg.

Tex., San Antonio—San Antonio Public Service Co., 201 N. St. Mary's St., erect \$20,000, 4-room, 150x72-ft., fireproof office and storeroom, 501 S. Salado St.; Truscon Steel Co., Contr., Travis Bldg.

W. Va., Romney—W. R. & B. W. Hill started excavation for 3-story and basement, 30x60 ft., conc., brick and steel store and apartment on Main St.; conc. floors; A. D. Mead, Archt.-Engr.; Mead Equipment Co., Contr., both First Huntington Natl. Bank Bldg., Huntington. See Want Section—Building Material and Equipment.

Theaters

Ala., Jasper—Albert Russell remodel one-story, 140x52-ft. theater; new balcony, conc. floors, stage, built-up roof; Bem Price, Archt., 1420 Comer Bldg., Birmingham; owner builds.

Fla., Fort Pierce—D. H. Sample erect \$50,000 moving picture theater on N. Second St.; 50x100 ft., one story, tile and conc.; Cahow Construction Co., Contr.

Tex., San Antonio—Interstate Amusement Co., Karl Hoblitzelle, Pres., let contract to Walsh & Burney, Inc., 928 N. Flores St., for excavation, foundation and retaining walls for Majestic Theater and office building, E. Houston St. near St. Mary's St.; \$2,000,000, 168x164 ft., brick, steel, conc. stone and terra cotta; auditorium to seat 4500 people; John Eberson, Archt., 212 E. Superior St., Chicago. 3-1

Warehouses

Tex., Houston—Wald Transfer and Storage Co., J. B. Blazek, Sec., 812 Live Oak St., erect \$15,000, one-story brick warehouse addition, Walker Ave. and St. Charles St.; E. R. Scott, Contr.

Tex., Port Arthur—Frank and Willard Imhoff, Seventh and Ft. Worth Ave., erect \$40,000 hollow tile warehouse, 600 block Houston Ave.; H. W. McCord, Contr., Adams Bldg.

Trade Literature

Shafts and Equipment.—N. A. Strand & Company, Chicago, Ill., exclusive manufacturers of flexible shafts and equipments, have published a new catalogue of 48 pages, covering several new types of machines and attachments. The catalogue may be obtained from the company, 5001 North Lincoln street.

City of Augusta.—Much information of value to outsiders, as well as to the citizens, is to be found in the Year Book of the City Council of Augusta, Ga., for 1927, which is much in the nature of a report by a corporation board to the stockholders. One learns, for instance, that the cost of street paving was \$151,600. The total water pumpage was 2,180,500,000 gallons, an average of 5,971,000 gallons a day, and 70,500 square yards of pavement was laid. The city's assets are given as \$12,233,000 and the surplus as \$8,694,000.

Regenerative Air Preheater.—The Blaw-Knox Regenerative Preheater makes available to the steel and glass industries a thoroughly reliable means of obtaining a continuous supply of air preheated to temperatures up to 1500 degrees Fahrenheit, says Bulletin No. 1040 of the Blaw-Knox Company, Pittsburgh, Pa. Also, it adds, this high preheat can be maintained continuously through years of service without interruption, even for cleaning or repairs. The bulletin may be obtained on application to the company.

Speed Transmission.—A comprehensive catalogue, No. 88, descriptive of the new design Reeves Variable Speed Transmission, has been issued by the Reeves Pulley Company, Columbus, Ind. The six sections are designated: "Construction and Operating Principles"; "Composite Designs, Remote Controls and Accessory Parts"; "Automatic Control"; "Adoption of the Reeves as Standard Equipment"; "Various Industries Which Now Use the Reeves" and "Engineering Information." Illustrations of value are numerous in the catalogue.

Incor Cement.—Announcement of a "perfected Portland cement," under the copyright name of Incorpor Cement, is made in a circular issued by the International Cement Corporation, New York City. It is claimed that this product will produce concrete ready for use in 24 hours and that it contains no admixtures of any kind, and can be used like any other Portland cement. At Clarksdale, Miss., concrete made from Incorpor Cement was poured at 2 P. M. and the driveway was opened to traffic at 8 A. M. the next day.

Armco Ingot Iron.—A second edition of "Armco Ingot Iron," a pamphlet issued by the American Rolling Mill Company, Middletown, Ohio, is of even wider range and greater informative value than the first publication. Instances of the service of pure iron through Armco ingot iron installations in the United States and elsewhere are presented, and the pamphlet is featured by high-class illustrations supplementary to the interesting reading material.

Lafayette, La.—The City of Lafayette, La., is pictured as the "Hub of Southwest Louisiana" in an interesting circular issued by the local Rotary Club, which shows it to be the center of a population of 341,955 people and with four payrolls aggregating \$4,440,000 a year, not counting many lesser industries. The population is 12,000, and the railroad facilities are supplemented by possibilities of shipping by water, also.

Steel Joists and Stanchions.—Interesting facts and technical computations on Bethlehem Steel Joists and Stanchions for dwellings, apartment houses, etc., are presented in a booklet issued by the Bethlehem Steel Company, Bethlehem, Pa. For heavier sections, it has issued a catalogue, "Bethlehem Structural Shapes."

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Baking Plant Equipment.—Cohen & Block, 2-12 Clare St., Cape Town, South Africa.—Wants medium size plant and oven for making passover cakes (Matzo's); plant must be simple and easily operated, latest design.

Bucket Elevator.—Hackley Morrison Co., Inc. (Mchy. Dealers), 204-6 N. Jefferson St., Richmond, Va.—Wants one 30 in. to 34 in. bucket elevator, 30 ft. to 35 ft. centers.

Canning Machinery.—Geo. R. Bible, Stevenson, Ala.—Wants machinery for canning and packing plant.

Citrus Packing Machinery.—Maxwell & Cobbe (Attorneys), State Bank Bldg., Haines City, Fla.—Have client who will shortly be in market for citrus packing machinery and want complete information.

Clamshell Bucket.—See Locomotive Crane.

Galvanized Tubing.—J. H. Whitely (Planter and Ginners), Stantonburg, N. C.—Wants galvanized tubing.

Garage Equipment.—Keystone Service Co., W. C. Ross, Mgr., 100 S. Williams St., Moberly, Mo.—Wants prices on following:
(1) Car Greasing and Oiling Equipment
(2) Car Washing Equipment.

Hydraulic Ram.—Mrs. Ada B. Clodfelter, Garber, Mo.—Wants prices on hydraulic ram.

Lawn Mower Grinding Equipment.—Sydnor Pump and Well Co., Thos. G. Sydnor, Pres., 1310 E. Main St., Richmond, Va.—Wants lawn mower grinding equipment.

Locomotive Crane.—Lewter F. Hobbs, Inc. (Mchy. Dealers), McKevitt Bldg., Norfolk, Va.—Wants 8 wheel steam locomotive crane with 40 ft. boom and ¾ yd. clamshell bucket.

Locomotive (Electric).—D. C. Elphinstone, Inc. (Mchy. Dealers), 120 S. Calvert St., Baltimore, Md.—Wants one 10-ton or 12-ton standard gauge electric locomotive; third rail.

Ornamental Concrete Product Molds.—Wm. A. Manning & Sons (Heating and Ventilating Engrs. and Contrs.), 55 W. Peachtree St., Atlanta, Ga.—Wants molds for ornamental cement products, such as garden furniture, fountains, vases, etc.

Pilehammers.—D. C. Elphinstone, Inc. (Mchy. Dealers), 120 S. Calvert St., Baltimore, Md.—Wants one No. 9B or No. 9B-2, and one No. 10B or No. 10B-2 McKiernan-Terry pilehammer.

Refrigeration Machinery.—Maxwell & Cobbe (Attorneys), State Bank Bldg., Haines City, Fla.—Have client who will shortly be in market for refrigeration machinery and want complete information.

Sheet Steel Piling.—D. C. Elphinstone, Inc. (Mchy. Dealers), 120 S. Calvert St., Baltimore, Md.—Wants 200 pieces 14-in. Archweb Lackawanna steel piling; 25 ft. long.

Spreader.—L. J. Breed Equipment Co. (Mchy. Dealers), P. O. Box 1515, Sta. A., Chattanooga, Tenn.—Wants second-hand Jordan spreader, standard gauge.

Trailer.—C. M. Winbrunn (Contr.), 1015 N. Sixth St., Richmond, Va.—Wants second-hand heavy duty trailer.

Transmission Line Equipment.—Dover Power Co., Inc., Erin, Tenn.—Will soon be in market for all items for transmission line Bear Springs to Indian Mound, Big Rock and Bumpas Mills.

Water Works Equipment.—R. M. Striger, Lampton Bldg., Jackson, engineer for Edwards, Miss.—water works, wants prices on following:

- (1) Fire Pump—500 or 750 g. p. m., Underwriters, both electric and gasoline motor driven
- (2) Pipe (Cast Iron) and Fittings—4-in. and 6-in. A. W. W. A. pipe and fittings.

W. M. Smith & Co. (Mchy. Dealers), Birmingham, Ala.—Wants following:

- (1) Air Dump Cars—20 or 30 yd. air dump cars

- (2) Flat Cars—six 100,000 capacity steel underframe flat cars

- (3) Locomotive—Mikado type, 100 or 120 tons, with tractive effort of not less than 45,000 lbs. or 47,000 lbs.

Window Screen Machinery.—W. J. Beaman, 604 Jefferson Standard Bldg., Greensboro, N. C.—Wants screen machinery for manufacture of wood frame insect screens.

Mississippi Steel and Iron Co., Inc., S. B. Lawrence, Pres., High and Monroe Sts., wants prices on following; new or used:

- (1) Bar Shear—1½-in. round capacity, motor or belt drive, 220 volt, A. C. 60 cycles
- (2) Acetylene Generator—100 pound
- (3) Hack Saw—high speed power, 9x9 or 13x13-in. motor drive
- (4) Hoist—Cyclone chain, 3 tons and 1 ton
- (5) Punch—combination, 1 in. through ½ in., shear angles, 6x6x2-in., and plates
- (6) Rivet Heater—electric, 2 or 3 rivet capacity.

Reynolds Machinery Co., Inc., Joseph F. Reynolds, Pres., P. O. Box 424, Jacksonville, Fla.—Wants prices on following:

- (1) Concrete Mixers—gas or electric power, 1 or 2 yds.
- (2) Cranes and Draglines—crawler, ½ to 1 cu. yd.
- (3) Derrick (Stiff Leg)—60 to 80 ft. boom
- (4) Storage Bin—one 75-ton.

Atkinson Canning Co., J. H. Atkinson, Sec., Longview, Tex., wants prices on following for catsup and pickle plant:

- (1) Belts
- (2) Bottle Cappers
- (3) Catsup Filler
- (4) Catsup Finisher
- (5) Bottle Crowning Machine
- (6) Engine—20 to 30 h. p.
- (7) Kettles—copper jacketed
- (8) Pulleys
- (9) Shafts
- (10) Boiler—18 ft. by 72 in.
- (11) Pump (Steam)—1½ in. intake
- (12) Tomato Pulper
- (13) Wagon Scales.

Guyan Machine Shops, B. Shell, Pres., Logan, W. Va., wants prices on following:

- (1) Air Compressor
- (2) Cylinder Grinder—for auto engines
- (3) Exhaust Fan—24x30 in. diam., 220 volts
- (4) Hoists—I-beam, 1 to 5 ton capacity, A. C. or D. C.
- (5) Japanning Oven—for baking large armatures, natural gas or electric heat
- (6) Lathe—for turning steel tires and steel locomotive wheels up to 40 in. diam. and from 32 in. to 48 in. gauge
- (7) Lathe Attachment—for taper 22 in. American lathe
- (8) Lifting Magnet—for 220 volts, D. C.
- (9) Motors—A. C. and D. C., 7½ h. p. and 15 h. p., 220 and 250 volts
- (10) Punch and Shear—preferably No. 1½ Buffalo Universal
- (11) Safe Cabinet—for office, large size, fireproof
- (12) Transformers—60 cycle, 2300 and 6600 to 220-440 volts, size 5 KVA 60 50 KVA
- (13) Wheel Press—100 ton capacity or larger.

James A. Waller, Jr., Agr. Engr., Blacksburg, Va., interested in water system for farms and wants information and prices on following:

- (1) Gas Engine Pumping Outfit—small
- (2) Windmills.

Miscellaneous

Candy Case.—E. H. Hendricks, Crosbyton, Tex.—Wants complete candy case.

Commercial Electric Refrigerator.—E. H. Hendricks, Crosbyton, Tex.—Wants small freezer case equipped with Frigidaire; if in good condition, used, satisfactory at attractive price.

School Equipment.—Cairo Consolidated School Dist., J. B. Wright, Chmn., Cairo, Ga.—Wants equipment for class rooms and auditorium.

Surgical Equipment.—Dr. A. W. Bridwell, Nacogdoches, Tex., and Shirley Simons,

Archt., Lufkin, Tex.—Want prices on sterilizers and operating room equipment for \$60,000 hospital.

Wire Fencing.—North Carolina State Fair, P. O. Box 775, Raleigh, N. C.—Wants prices on about 7500 ft. woven wire fencing; 6 ft. high and 1 ft. barbed wire or 7 ft. high and 1 ft. barbed wire.

Building Material and Equipment

Rev. W. W. Ward, Pastor, Arlington Heights Methodist Church, Fort Worth, Tex., wants prices on following for \$45,000 to \$50,000 Sunday school:

Celotex
Flooring—hardwood
Roofing—asbestos shingle, asphalt shingle
Terra Cotta Trim
Wire Glass.

Mrs. Ada B. Clodfelter, Garber, Mo., wants prices on following for one-story hotel:

Plaster Board
Roofing—asphalt shingle.

West Nash Motors, M. A. West, Pres., Paragould, Ark., wants prices on following for airplane hangar:

Roofing—corrugated
T-Hangars.

Col. P. M. Anderson, Archt., 1040 Investment Bldg., Washington, D. C., wants prices on following for \$258,000 Marjorie Webster School of Expression:

Electric Refrigerators
Floors—linoleum, tile
Roofing—asbestos shingle, tile
Tile—hollow.

N. W. Overstreet, Archt., Miss. Fire Bldg., Jackson, Miss., wants prices on following for \$18,000 bank remodeling, Louisville, Miss.:

Cast Stone
Flooring—linoleum
Marble
Tile—hollow
Vaults
Ventilators
Brass and Bronze Work.

R. H. Stuckey, Archt., Vernon, Tex., wants prices on following for \$85,000 city hall:

Cast Stone
Dumb Waiters
Flooring—tile, hardwood, linoleum, rubber tile
Limestone
Mail Chutes
Marble
Metal Ceilings
Metal Doors
Plaster Board
Rolling Partitions
Steel Sash and Trim
Terra Cotta Trim
Vaults
Vault Lights
Ventilators
Wire Glass.

Rev. G. A. Hudson, Pastor, Community Church, Rio Hondo, Tex., wants prices on following for \$22,500 church:

Flooring—hardwood, tile, composition
Plaster Board
Rolling Partitions
Roofing—asbestos shingle
Steel Sash and Trim.

J. T. Jackson Lumber Co., Lexington, Ky., wants prices on following for \$210,000 hospital and nurses' home, Glasgow, Ky.:

Cast Stone
Metal Doors
Roofing—slate
Tile—gypsum.

W. A. Rayfield & Co., Archts., Drawer 649, Birmingham, Ala., want prices on following for \$25,000 church:

Plaster Board
Rolling Partitions
Roofing—asphalt shingle, tile
Tile (Building).

D. F. Anderson, Chmn., Bldg. Comm., Baptist Church, Thomasville, Ala., want prices on heating system, preferably steam.

W. A. Rayfield & Co., Box 649, Birmingham, Ala., wants prices on following for \$10,000 store:

Metal Ceilings
Plaster Board
Roofing—built-up, tile.

Geo. F. Sansbury, Archt., Cit. Natl. Bank Bldg., Cumberland, Md., wants prices in following for \$75,000 church:

Dumb Waiters
Flooring—hardwood, linoleum, tile
Incinerator
Limestone
Rolling Partitions
Roofing—built-up, slate
Steel Sash and Trim
Tile—gypsum, hollow
Ventilators
Wire Glass
Brass and Bronze Work.

Geo. Willis & Emmett T. Jackson, Asso. Archts., Bldrs, Exch. Bldg., San Antonio, Tex., wants prices on following for bank, Del Rio, Tex.:

Cast Stone
Flooring—terrazzo
Limestone
Mail Chutes
Marble
Metal Doors
Rolling Partitions
Roofing—built-up
Steel Sash and Trim
Tile—hollow
Ventilators
Brass and Bronze Work.

Rev. S. F. Dowis, Pastor, Carlisle Ave. Baptist Church, Louisville, Ky., wants prices on following for \$90,000 church:

Flooring—linoleum, composition
Roofing.

Garden Homes, Inc., 34 Knickerbocker Bldg., Baltimore, Md., Herbert J. West, Pres., wants prices on building material and equipment for dwellings.

W. P. Hinson, Alpine, Tex., wants prices on following for garage:

Plaster Board
Tile—hollow.

L. V. Crookshank, 923 N. Main St., Brookfield, Mo., wants prices on following for \$160,000 high school:

Cast Stone
Floors—hardwood, linoleum, terrazzo, composition
Roofing—built-up
Tile—gypsum, interior
Vaults
Wire Glass.

Rev. J. H. Holder, Pastor, M. E. Church, South, Grenada, Miss., wants prices on following for \$100,000 church:

Cast Stone
Elevators
Flooring—hardwood, linoleum
Roofing—asbestos shingle, tile
Steel Sash and Trim
Tile—hollow
Vaults
Ventilators.

Will N. Noonan Co., Archt., 301 Builders Exchange Bldg., San Antonio, Tex., wants prices on following for \$12,000 science building, Rocksprings Ind. School Dist.:

Metal Ceilings
Tile—hollow
Ventilators.

E. B. Ring, Inc., Contr., Box 2258, St. Petersburg, Fla., wants sub-bids on following for \$400,000 Snell Arcade:

Doors—hollow metal and Kalomein
Glass
Glazing
Marble
Metal Lathe and Windows
Ornamental Iron and Bronze
Painting
Plastering
Reinforcing Steel
Terrazzo
Tile.

H. P. Niedermeyer, 215 Pioneer Trust Co., Kansas City, Mo., wants prices on following for \$250,000 apartment, Columbia, Mo.:

Cast Stone
Electric Refrigerators
Elevators
Floors—hardwood, tile
Incinerator
Marble
Metal Ceilings
Metal Doors
Roofing—built-up
Tile—gypsum
Terra Cotta Trim
Ventilators
Wire Glass
Brass and Bronze Work.
Also wants sub-bids on following:
Elevator—10-passenger
Heating
Plumbing
Electric Work.

Ray Littlefield (Archt.), Caitol Square Bldg., Tallahassee, Fla.—Wants catalogues and literature for office files.

Warren, Knight & Davis, Archts., Empire Bldg., Birmingham, Ala., wants prices on following for \$50,000 church, Auburn, Ala.:

Limestone
Plaster Board
Rolling Partitions
Roofing—asbestos shingle
Tile—hollow.

Sam Stone, Jr., & Co., Inc., Masonic Temple, New Orleans, La., want prices on following for office building, McComb, Miss.:

Flooring—linoleum, tile
Limestone
Metal Doors
Roofing—built-up
Sprinklers

Steel Sash and Trim
Brass and Bronze Work.

W. R. & B. W. Hill, Romney, W. Va., wants prices on following for 3-story, 30x60 ft. store and apartment:

Cast Stone
Floors—terrazzo, composition
Incinerator
Limestone
Metal Doors
Roofing—built-up
Tile—gypsum, hollow
Ventilators
Brass and Bronze Work.

Bids Asked

Airships. — Sec. of Navy, Navy Dept., Washington, D. C.—Bids Aug. 9 for construction of 2 rigid airships each with gas capacity of 6,000,000 cu. ft.

Batteries.—Pur. and Contracting Officer, Q. M. Depot, Camp Holabird, Baltimore, Md.—Bids May 9 for 115 storage batteries.

Boiler.—See Power Plant.

Boiler Room Repairs. — Archt. of U. S. Capitol, Washington, D. C.—Bids May 14 for labor and material for altering and replacing main steam header pipe in west side of Capitol plant boiler room.

Bridge.—State of Kentucky. See Construction News—Roads, Streets, Paving.

Bridge.—Baltimore, Md. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Washington, D. C. See Construction News—Bridges, Culverts, Viaducts.

Bridge, etc.—Stuart, Fla. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Fort Myers, Fla. See Construction News—Bridges, Culverts, Viaducts.

Bridge Piers.—Louisville, Ky. See Construction News—Bridges, Culverts, Viaducts.

Bronze Grilles.—Suprg. Archt., Treasury Dept., Washington, D. C.—Bids May 8 for bronze mesh grilles for cash room Treasury Bldg.

Chairs and Tables. — District Comms., Washington, D. C.—Bids May 15 for pupils' chairs and desks.

Cloth. — Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids May 25 for cloth, for delivery to Philadelphia, Pa.

Compasses, etc. — Depot Q. M., Marine Corps, Philadelphia, Pa.—Bids May 26 for 250 pocket compasses, 900 gro. boxes safety matches, 100 dress trumpet slings, and 150 prs. rosewood drumsticks.

Diesel Engine.—See Power Plant.

Dredging.—U. S. Engr., Wilmington, Del.—Bids May 23 for dredging Absecon and Tuckertown Creeks, N. J.; dredging Cooper River, Mantua Creek and Cohansey River, N. J.

Dredging.—Bd. of Supvrs. of Knox Shelby Drainage Dist. of Knox and Shelby Counties, La Platta, Mo.—Bids May 11 for construction of 5 mi. of drainage ditch on Salt River and containing approximately 229,000 cu. yds. of excavation.

Filing Cases, etc.—Q. M. Supply Officer, Washington, D. C.—Bids May 10 for metal filing cases, 3 steel tops, metal safe and 3 steel bases.

Fire Boat. — Bd. of Comms., Galveston, Tex.—Bids May 10 for building 85 ft. steel fire boat, gasoline driven; plans from Cox & Stevens, Inc., 341 Madison Ave., New York.

Fire Drill Tower Equipment. — District Comms., Washington, D. C.—Bids May 9 for drill tower equipment, including ladders, life nets, stretchers, gas masks, etc.

Furniture. — Tom Green County, J. T. Mathison, Judge, San Angelo, Tex.—Bids May 10 for steel furniture and fixtures, built-in metal counters, metal files, library furniture, desks, tables, chairs, book racks; plans from Anton F. Korn, Archt., Thomas Bldg., Dallas, Tex.

Gilt Collar Ornaments and Buttons.—Marine Corps, Quartermaster's Dept., Washing-

ton, D. C.—Bids May 28 for furnishing 3000 pairs of enlisted men's gilt collar ornaments and 3000 gross of shirt buttons, for delivery to Philadelphia, Pa.

Hydraulic Fill.—Chief of Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids May 16 for 45,000 cu. yds. hydraulic fill at naval operating base, Hampton Roads (Br. of Norfolk), Va.

Landscape Work.—Bd. of Awards, Baltimore, Md.—Bids May 9 for furnishing all plants, tools, labor and materials for planting on grounds of Curtis Bay School, Arlington St., and Highlandtown School, Fifth St.; Lyndhurst School, Collins Ave.; Western High School, Gwynns Falls Parkway and Pulaski St.

Leather, Book Cloth, etc. — Government Printing Office, Washington, D. C.—Bids May 14 for furnishing leather, book cloth, golf leaf and other material for public printing and binding to Government Printing Office during term of 1 yr. beginning July 1.

Lumber. — Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids May 10 for lumber, for delivery to Quantico, Va.

Metal Vault Equipment. — Suprg. Archt., Treasury Dept., Washington, D. C.—Bids May 9 for metal vault equipment at Norfolk, Va.

Motorcycles.—State Highway Dept., Dover, Del.—Bids May 23 for 25 motorcycles for State highway police.

Paint and Oils.—State Highway Bd. of Georgia, John N. Holder, Chmn., East Point, Ga.—Bids May 18 for furnishing 150 gal. graphite, 500 lbs. iron oxide, 300 lbs. magnesium silicate, 100 gal. varnish vehicle for aluminum paint, 200 lbs. aluminum powder, 200 gal. white lead and zinc. In oil, 50 gal. turpentine; quote prices f. o. b. East Point, Rome, Augusta and Savannah, Ga.

Paints, Oil, etc.—Supt., Chillicothe Indian Station, Chillicothe, Okla.—Bids May 10 for 600 lbs. roof paint, 300 lbs. white lead, 45 gals. turpentine, 25 gals. interior varnish, 12 steam radiators, 32 wall brackets, 1200 ft. pipe covering, 25 lbs. cement for steam pipes, 3300 ft. conduit, 6800 ft. covered wire, switches, 10 rolls adhesive cloth tape, etc.

Paper.—Pur. Agt., P. O. Dept., Washington, D. C.—Bids May 22 for bond, book, manifold, newsprint, kraft wrapping paper for use in postal service during fiscal year.

Pipe.—U. S. Engr. Office, Huntington, W. Va.—Bids May 8 for 4400 ft. w. i. pipe.

Pipe (Cast Iron).—City of Safety Harbor, Fla.—Bids May 7 for furnishing 3300 ft. of 4-in. Universal or ball and spigot or McWane, Class B, c. i. pipe and for laying same.

Power Plant.—Town of Leland, Miss.—Bids May 22 for equipment, material and labor for power plant improvements, including: 150 kw. and one 250 kw. Diesel engine units or 150 kw. and one 300 kw. Diesel engine units or 300 kw. uni-flow steam engine unit, and 200 h. p. water tube boiler; two 750 g. p. m. motor driven centrifugal fire pumps and plant switchboard; Swanson-McGraw, Inc., Engrs., 426 Balter Bldg., New Orleans, La.

Pump (Centrifugal Fire). — See Power Plant.

Pump.—Q. M. Corps, Ft. Sam Houston, Tex.—Bids May 15 for centrifugal motor-driven pump with motor.

Pumping Outfit.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids May 10 for furnishing pumping outfit, for delivery to Sewalls Point, Va.

Road.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Road.—Hendersonville, N. C. See Construction News—Roads, Streets, Paving.

Roads.—Edinburg, Tex.—Bids for 5 roads. See Construction News—Roads, Streets, Paving.

Road.—Birmingham, Ala. See Construction News—Roads, Streets, Paving.

Roads.—State of Kentucky—Bids for 24 roads. See Construction News—Roads, Streets, Paving.

Road.—State of Virginia. See Construction News—Roads, Streets, Paving.

Roads.—State of Maryland—Bids for 8 roads. See Construction News—Roads, Streets, Paving.

Roads.—State Highway Dept., Dover, Del.—Bids May 23 for 2 roads: Cont. 90—3.769 mi. Bay Road; 15,500 cu. yd. excavation and borrow, 6580 cu. yd. cement conc. pavement, and slag aggregate, 1600 lb. reinforcement; Cont. 102—35 mi. Pennsylvania Ave.; 4500 cu. yd. excavation, 200 tons broken stone base course, 2500 cu. yd. cement conc. sidewalk, 2800 lin. ft. conc. curb.

Road Roller (Gas).—City, Frank Spier, Sec., Uvalde, Tex.—Bids May 10 for 10 ton gas roller with scarifier attachment.

Road.—Houston, Tex. See Roads, Streets, Paving.

Roads.—State of Kentucky—Bids for surface treating 40 roads. See Construction News—Roads, Streets, Paving.

Road Building Equipment.—Hinds County Bd. of Supvrs., Jackson, Miss.—Bids May 9 for following road equipment: 1-ton trucks; 2-ton tractors; 5-ton tractors; 10-ton tractors; road maintainers.

Roads.—State of West Virginia—Bids for 10 roads. See Construction News—Roads, Streets, Paving.

Road Building Material.—St. Johns County Commrs., O. P. Goode, Clk., St. Augustine, Fla.—Bids May 8 to furnish material to build or improve Road 9, Picolata road: Shell—6400 cu. yd., delivered on lighter at Picolata, Tocol, or other nearby points along East Bank of St. Johns River; cypress curbing—21 M. B. M. 2x6-in.; pine lumber—7 M. B. M. 2x4-in.

Scales.—Quartermaster's Dept., Washington, D. C.—Bids May 29 for 15 counter scales and 40 portable platform scales, for delivery to Philadelphia, Pa.

School Furniture.—Dist. Commrs., 320 Dist. Bldg., Washington, D. C.—Bids May 15 for chairs, desks and tables.

School Supplies and Equipment.—Bd. of Awards, care Office of City Register, Baltimore, Md.—Bids May 9 for furnishing machinery, equipment, tools and supplies for machine shops, electrical shops and wood shops.

School Supplies.—Houston Independent School Dist., care H. L. Mills, Business Mgr., 1600 Washington Ave., Houston, Tex.—Bids May 16 for crayons, erasers, drawing paper, hardware and miscellaneous janitor supplies, for school term 1928-29.

Sewers.—Dist. Commrs., Room 509 Dist. Bldg., Washington, D. C.—Bids May 10 for 9363 ft. sewer from 10-in. to 3 ft. 6-in. in diam.

Sewers.—City of Cumberland, Md.—Bids May 10 for labor, material for constructing improvements along Wills Creek under Partial Flood Prevention Plans; work includes widening and deepening Wills Creek, constructing conc. walls, raising, facing and pointing up old walls, improvements to buildings and sewers along Wills Creek; Leander Schaidt, Special Flood Engr., 12 Greene St.

Sewer Tile.—City of Amarillo, Tex.—Bids May 8 for furnishing 12 miles of 6-in. to 15-in. sanitary sewer tile and for hauling, laying and trenching and backfilling same.

Steam Engine.—See Power Plant.

Stone, Tar.—Quartermaster, Supply Officer Washington—Bids May 10 for 75 tons stone 6000 gals. road tar.

Steel Discharge Pontoons.—U. S. Engr. Office, Rock Island, Ill.—Bids May 12 for forty 38x14x3 in. steel discharge pontoons.

Streets.—Dist. Commrs., Washington, D. C. See Construction News—Roads, Streets, Paving.

Timber Piers.—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Bids May 9 for complete removing and rebuilding 7 timber piers with creosoted piles at Submarine Base, New London, Conn., including railway tracks, oil, water and air lines and cables for light, power, signal and battery charging; Spec. No. 5559.

Water Conduit.—Oklahoma City, Okla.—Bids May 8 for construct water conduit line, 48-in., 40,000 ft. c. i., rein. conc. steel and wood stave.

Water Line Extension.—Dept. of Public Service, Knoxville, Tenn.—Bids May 7 for proposed water line extensions and adjustment work contemplated in street improvement program, work includes trenching, backfilling and removal of surplus earth for approximately 65,000 ft. of installation; new line, 200 ft. of 10-in., 800 ft. of 8-in. and 20,000 ft. of 6-in. capacity; relaying services, 20,000 ft.; installing blind taps, 20,000 ft.; hydrants, fire hydrants, rock excavation, etc.

Water Wells and Pumps.—Town Council of Mount Dora, Fla.—Bids June 5 for furnishing and constructing one or more deep wells and screened wells; for pumping equipment adapted to these wells; for all necessary accessories and such installation and sundry work required; Main Engineering Co., Inc., Engrs., 112 Baker St., Daytona Beach.

Water Works Improvements.—Bd. of Public Works, Greer, S. C.—Bids May 9 for constructing 1,000,000 gal. filtration plant, 12-in. raw water main and raw water pumping station; The Harwood Beebe Co., Engrs., 208 Montgomery Bldg., Spartanburg.

Water Works.—Town of Romney, W. Va.—Bids May 17 for water filtration plant, conc. reservoir and additions to distribution system, including excavating and laying pipe lines; furnishing pumps and motors, f. o. b. Romney; construction of reservoir; construction of filter building, sedimentation plant, intake at river, erection of all apparatus together with water lines near filtration plant.

Woodworking Machinery.—Commanding Officer, San Antonio Arsenal, San Antonio, Tex.—Bids May 7 for motor driven saw machine and combination saw bench machine, motor driven.

American and Foreign Power Company, Inc.

The report of the American and Foreign Power Company, Inc., for 1927 says that gross earnings of subsidiary companies aggregated \$19,976,172, as compared with \$10,183,775 for 1926. These are the earnings only for the periods during which the respective properties were controlled; had the subsidiaries all been controlled for the entire year, the gross earnings for 1927 would have been \$23,474,620. Other properties have been acquired since the close of the year and the latest available reported 12 months' gross earnings of all companies directly or indirectly controlled by American and Foreign Power Company, Inc., as of April 1, 1928, were approximately \$31,500,000. The balance sheet for 1927 shows total current assets of \$29,504,332 and total current liabilities of \$1,240,189. Surplus was \$3,916,161.

Wheeling Steel Quarterly Report.

Net profit of \$1,024,213, available for dividends, is reported by the Wheeling Steel Corporation and its subsidiary companies for the first quarter of 1928, with surplus, March 31, of \$11,400,957, as compared with \$11,040,063 on January 1, 1928. Profit for the quarter from operations, after deducting repair and maintenance charges of \$1,321,884, and provision for Federal tax, was \$2,276,649. Dividends on preferred A and B stocks are given as \$663,320. Isaac M. Scott is president and Alexander Glass is chairman of the board. J. E. Montgomery was elected to the board in succession to the late Edward Hazlett.

Supply Road Symbols in Record Time.

Somewhat of a record has been credited to the American Brass & Aluminum Castings Corporation, Portsmouth, Va., in the supplying of over 6000 road symbols to the State of Virginia within 14 days of the receipt of the order. Both the size of the order and the prompt delivery are said to be unusual. The American Brass & Aluminum Castings Corporation manufactures brass, bronze and aluminum castings, memorial tablets, historical markers and name plates and also makes patterns and acts as designing engineer.

American Utilities Company.

Satisfactory gains in the electric light and power, gas and water departments of the American Utilities Company of Harrisburg, Pa., and its subsidiaries, a large proportion of which are in the South, are announced in the report for 1927 by Samuel W. Fleming, Jr., president. Decrease in the ice business was attributed to the Mississippi flood and low temperatures. The gross revenue was reported as \$1,721,724, an increase of virtually \$100,000 over the previous year, and the surplus and reserves were placed at \$2,117,776.

Greenspon's Sons in New York.

Announcement is made that Joseph Greenspon's Sons Iron and Steel Company, St. Louis, has opened a branch office at 551 Fifth avenue, New York, where a representative will handle its business and keep in touch with present and prospective customers.

J. H. Edmonds Succeeds Mr. Brock.

The Bethlehem Steel Company announces the appointment of J. H. Edmonds as general manager of the Lebanon plant, to fill the vacancy caused by the death of John Penn Brock. J. A. Kinney becomes assistant general manager.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Consolidated Products Company Moves.

The Consolidated Products Company, specialists in used chemical machinery, has moved to an entire wing of the sixteenth floor of 15 Park Row, New York city, where twice the former office facilities are available.

Chain Company Expands Business.

The Columbus McKinnon Chain Company, Tonawanda, N. Y., has purchased the chain block electric hoist and crane division of the Chisholm and Moore Manufacturing Company, Cleveland, Ohio. Samuel H. Moore, president and founder of the Chisholm and Moore company, will continue to be active and the personnel of this company will remain unchanged. The sales offices and plant will remain in Cleveland and will be operated as the Chisholm-Moore Hoist Company, a division of the Columbus McKinnon Chain Company. A new corporation has been organized to take over the foundry division of the Chisholm-Moore plant and will be known as the Chisholm-Moore Malleable Iron Company.

Reducing Grinding Operation Costs.

The Buckeye Portable Tool Company, Dayton, Ohio, has placed on the market a grinder which it describes as air driven and operating on the perfected rotary principle which eliminates vibration and provides a smooth running, constant source of power. It is light in weight, easily handled and simple of design. The Hercules is made in various models, sizes and speeds for various classes of work. Speeds are within the safety code rating, attaining 8000 to 9000 surface feet per minute and may be had in ratings from 4800 to 6200 R. P. M. The Hercules line also includes portable drills, sanders, buffers, nut setters, screw drivers, etc.

Larger Manufacturing Quarters.

The Stuebing Cowan Company of Cincinnati, Ohio, and Holyoke, Mass., manufacturing lift trucks, have moved their New England plant into larger quarters. The Holyoke factory will take care of all New England and eastern business, with an 80 per cent increase in floor space.

Virginia Becoming Rayon Manufacturing Center.

Richmond, Va.—With the big rayon plant at Roanoke of the Viscose Corporation, one of the largest in the world; the large plant at Hopewell of the Tubize Artificial Silk Company, and the two \$10,000,000 rayon mills recently announced to be erected near Richmond and Covington for the Dupont Rayon Company, Inc., Buffalo, and the Industrial Rayon Corporation, Cleveland, Ohio, respectively, Virginia is becoming a center of the rayon industry in America.

According to information received here, there is a possibility that another big mill will be built in Virginia and a representative of the State Conservation and Development Commission, at the instigation of Governor H. F. Byrd, has gone to New York to confer with Dr. J. C. Hartog, of the Enka Artificial Silk Company of Holland, which is said to be considering the project. It is understood that an American company will be formed to build and operate the American plant, which will use the viscose process and manufacture the types of yarns produced by the Dutch Enka company.

Krumbhaar & Co., Inc., construction managers, 115 Broadway, New York, last week wired Governor Byrd that they were in touch with foreign interests who plan to locate a large rayon plant in the United States, and asking if Virginia communities would be interested in such an enterprise.

Sunflower Pith Suggested for Refrigerator Insulation.

Suggestion that the pith in the stalk of the sunflower plant might be adopted as a substitute for cork in refrigerator insulation has come to the MANUFACTURERS RECORD from G. W. Hardy of Shreveport, La., and comments on that suggestion and on the Refrigeration law of Florida also have been received from John Frederick Wadsworth of Erie, Pa., engineer, and Arthur D. Little, Inc., engineers, Cambridge, Mass. The letter from Mr. Hardy to the MANUFACTURERS RECORD reads:

"I beg to call your attention to a matter about which I have read, which seems to me to be of immense importance to the United States, if the story of the discovery is true. What I read was, in effect, as follows:

"Some scientific research expert, a foreigner I think, has discovered that the pith in the stalk of the sunflower plant is very, very much lighter than cork, and much more easily compressed. This scientist has been utilizing this substance in supplanting cork in the mechanism of life preservers and many refrigerating matters.

"You may have seen the same article; if not, please assist me in investigating the matter, if you can, with this meager information, as I destroyed the magazine and have entirely forgotten its name.

"It occurred to me, however, that it might be a matter of importance to the United States, in that the sunflower is indigenous to the soils of the majority of the States, especially Louisiana, Texas, Oklahoma, Missouri, Kansas and Illinois, and I think very likely to others."

On this line the letter from Arthur D. Little, Inc., says:

"We acknowledge your letter in regard to the utilization of the pith of the sunflower plant.

"Although the pith is very light in its natural state, its specific gravity will gain considerably while undergoing the necessary compression, so that in the final state its superiority over cork, balsa wood and similar materials would be much less marked. Probably the greatest difficulty in the way of commercial operation would be the expense of collecting the stalks and removing the pith—which, after removal, would constitute a rather small percentage of the total weight of the original plant. Added to this cost of preparation, there would be, of course, the manufacturing expense.

"In view of these difficulties, we do not believe that there

is any appreciable possibility of utilizing the pith of the sunflower plant commercially."

Commenting on both the Florida Refrigeration law, which has been explained in detail in the MANUFACTURERS RECORD, and on Mr. Hardy's sunflower suggestion, Mr. Wadsworth wrote:

"I think there will have to be some considerable change in the Florida law before anything comes from it. We, of course, all know that the State of Florida is in excellent financial condition and it would, therefore, be reasonable to assume that the greatest good would result, as far as the establishment of cold storage warehouses is concerned, from the State offering assistance to and encouraging private corporations. Another angle to this would be from the railroad standpoint, as the establishment of storage plants at strategic points on their lines would tend to promote business for the carriers and thus develop the territory contiguous to their lines. Whatever is done either by the railroad or by the State should be supervised and developed logically with the advice of someone familiar with the various phases of the industry. We feel that the development of egg and poultry, including turkeys, as well as vegetable, farming could be developed to a much greater point through the South by this means, as they are closer to the Northeastern markets.

"With reference to Mr. Hardy's question on the utilization of the pith of the sunflower plant, I would say that we have never heard or seen anything printed in this regard, although there have been, from time to time, many substances used or proposed for insulation work in the cold storage industry. Cork has been in the market the longest and still maintains its lead. We, of course, well know the use of flax for this purpose, although it is more inflammable than cork and is, in some other ways, not quite so good. We also have experimented with and used a product made from melted limestone which is blown by compressed air into fine fibers and then brought together into a more or less homogeneous mass containing minute air spaces.

"Our comment on the use of the sunflower would be that it would be rather expensive to prepare this substance for commercial use in a satisfactory form. It is, of course, true that the cost of cork has been going up for some time, due to the increased use, freight rates, etc., and for this reason substitutes receive more attention; but from a cursory observation of the situation we would not think that the use of the sunflower pith would work to a very great commercial success for insulation purposes for cold storage work. Marsh grass and reeds have been successfully used for house insulation by imbedding in paper covers."

Pepperell Manufacturing Company May Move Textile Mills to the South.

According to a press dispatch from Biddeford, Maine, Mayor Prescott has been notified by the directors of the Pepperell Manufacturing Company that if the taxes of the corporation are not reduced to a pre-war figure or a figure somewhat near that, the company will have to look elsewhere for a location, probably in the South, where it would be exempt from taxes and given concessions.

The company some months ago placed in operation a mill of 24,000 spindles and 625 looms at Opelika, Alabama.

To Plan \$2,500,000 City Hospitals Buildings.

The Supervisors of City Charities, Baltimore, have appointed the following committee to co-operate in the preparation of plans for additional buildings at the Baltimore City Hospitals to cost \$2,500,000; Col. Rufus Longan, superintendent of the hospitals; Dr. Charles Hablston, head physician of the tuberculosis department; Dr. Thomas R. Boggs, Dr. Arthur M. Shipley and Dr. Harry Goldsmith. Needs for new buildings and additions will be studied by the committee, which will report to the supervisors May 18.

Contract for the construction of a 66-room, four-story hotel of reinforced concrete construction at Moultrie, Ga., has been awarded to the Huber Construction Company, Moultrie, at approximately \$140,000, including plumbing and heating.

Established 1865



Industrial, Public Utility and Real Estate Mortgage Financing

SINCE 1865 we have been continuously engaged in the investment banking business and during this period have done original financing in all of the States and Provinces of the United States and Canada, respectively, which are shaded in the above map, and also in the Republic of Cuba.

Continued financing by means of temporary loans is unsound. We can assist you in securing additional permanent capital, which may be applied to the reduction of bank loans and other current obligations, or to improvements and extensions to your plant and equipment. An inquiry will bring you a prompt reply and more detailed information, without obligation to you.

Peabody, Houghteling & Co.

10 South LaSalle Street, CHICAGO

Detroit Milwaukee St. Louis San Francisco Minneapolis Cleveland

Established 1865

FINANCIAL NEWS

Bond Issues Proposed

- Ala., Mobile—Road, Bridge—Mobile County voted \$5,000,000 bonds; J. B. Converse, County Engr. 3-29
- Ala., Birmingham—Underpass—C. E. Armstrong, City Comptroller, probably sell in June, \$1,000,000 of \$4,000,000 bonds.
- Ark., Brinkley—Paving—City considering \$270,000 bond issue.
- Ark., Camden—Fire Equipment—City, Judson Patterson, Clk., votes May 31 on \$20,000, 5½% bonds.
- Ark., Monette—Water, Sewer—Ira W. Ellis, Chmn., Bd. of Dist. Commrs., probably sell \$65,000 bonds in 30 days.
- Ark., Morrilton—Courthouse—Conway County plans selling \$140,000 bonds.
- Ark., Walnut Ridge—School Bd., R. W. Moore, Pres., receives bids May 10 for \$16,000 Black Rock School bonds.
- Fla., Bonifay—Water, Sewer—City voted \$50,000 bonds. 3-22
- Fla., Daytona Beach—Street—City, E. H. Armstrong, Mayor, probably receive bids before June 1 for \$339,363 bonds; J. R. Brennan, City Engr. 4-5
- Fla., Green Cove Springs—Clay County, Orange Park School Dist., voted \$25,000 bonds; P. L. Tippins, Supt., Bd. of Public Instruction. 4-5
- Fla., Lakeland—Auditorium—City votes June 1 on \$150,000 bonds.
- Fla., Lake Placid—Town, J. E. Sims, Mgr., votes May 22 on bonds: \$70,000, water; \$10,000, white way; \$75,000, golf and country club improvements; \$32,000, city's portion for street improvements. 4-26
- Fla., Miami Shores—H. H. Hawthorne, Town Clk., receives bids May 14 for \$15,000 6% \$1000 denom. street and sidewalk bonds.
- Fla., Trenton—Glchrist County Bd. of Public Instruction, Mrs. M. H. Johnson, Supt., receives bids June 6 for \$45,000 6% Bell Special Tax School Dist. bonds.
- Ga., Ambrose—Ambrose Consolidated School Dist. voted bonds. 4-12
- Ga., Barnesville—Water Works—City, Mayor Coleman, voted \$30,000 bonds.
- Ga., Calhoun—Gibson County, Plainville Consolidated School Dist., voted \$10,000 5½% bonds. 4-5
- Ga., Cairo—Bd. of Trustees, Cairo Consolidated School Dist., J. B. Wight, Chmn., receives bids May 7 for \$400,000, 5½%, \$1000 denom. bonds. 4-26
- Ga., Thomson—School—Bd. of Trustees expect to call \$100,000 bond election in May.
- Ga., Vidalia—Vidalia School Dist. voted \$45,000 bonds.
- Ky., Eddyville—Road—Lyon County voted \$200,000 bonds. 3-22
- Ky., London—School—W. R. Feltner, City Clk., receives bids May 15 for \$25,000 5% \$1000 denom. bonds.
- Ky., Maysville—School—City may vote soon on \$119,000 bonds.
- La., Mansura—School—City voted \$75,000 bonds.
- La., Vinton—Paving—Town, Athan Perry, Mayor, voted \$33,000 bonds. 4-12
- Md., Annapolis—Water—Anne Arundel County Commrs., Elmer E. Parkinson, Pres., receive bids May 15 for \$50,000 4½% bonds.
- Md., Rockville—Montgomery County Commrs., Berry E. Clark, Clk., receive bids May 15 for \$450,000, 4½%, \$1000 denom. bonds: \$250,000, courthouse; \$150,000, school gymnasium; \$50,000, jail. 4-19
- Miss., Echu—School—City votes soon on \$20,000 bonds.
- Miss., Grenada—School—City Council plans \$10,000 bond issue.
- Miss., Poplarville—School—Mayor and Bd. of Aldermen authorized \$26,000 bond issue.
- Mo., Bunker—City voted school gymnasium bonds.
- Mo., Clayton—Hospital—P. G. Dueser, Treas., St. Louis County, receives bids May 21 for \$500,000, of \$1,000,000 4½% \$1000 denom. bonds.
- N. C., Charlotte—Paving—City Commrs., Mayor Redd, considering \$1,000,000 bond issue; J. B. Pridgen, City Engr.
- N. C., Statesville—City votes May 22 on \$350,000 school bonds.
- Okla., Sasakwa—Water—City plans voting May 8 on bonds.
- S. C., Greenville—Road—Greenville County considering selling \$400,000 bonds.
- Tenn., Benton—Road—Polk County Court, H. N. Bell, Chmn., receives bids May 21 for \$50,000, not to exceed 5% bonds.
- Tenn., Chattanooga—School—Hamilton County considering voting in Aug. on \$1,000,000 bonds.
- Tenn., Cookeville—Hydro-Electric Plant—City considering \$150,000 bond issue.
- Tenn., Memphis—Improvement—City Commission considering selling \$565,000 bonds.
- Tenn., Paris—Road—Henry County votes Aug. 2 on \$800,000 bonds. 3-22
- Tex., Amarillo—City votes May 26 on \$900,000 bonds to convert outstanding warrants into bonds.
- Tex., Bellville—Road—Austin County Commrs. Court may call \$325,000 bond election.
- Tex., Breckenridge—Breckenridge Independent School Dist. voted \$40,000 bonds.
- Tex., Brownwood—School—J. B. Leach, City Sec., receives bids May 8 for \$50,000 5% \$1000 denom. bonds. 3-29
- Tex., Burnet—Road—Burnet County, O. B. Zimmerman, Judge, voted \$35,000 Dist. 4 bonds. 3-15
- Tex., Crystal City—Street—City voted \$150,000 bonds.
- Tex., Dickinson—School—Galveston County, Dickinson School Dist., votes May 12 on \$60,000 bonds; O. E. Kennedy, Supt. of Education, Galveston.
- Tex., Edinburg—Road—Hidalgo County, Mission Dist., Road Dist. 5, voted \$1,500,000 bonds. 4-5
- Tex., El Campo—Paving—City Council may call bond election.
- Tex., Fort Worth—Street—City plans selling \$54,000 certificates.
- Tex., Graham—Water—City, A. B. Eddleman, Mayor, voted \$225,000 bonds. 3-22
- Tex., Houston—School Bd. will call \$4,000,000 bond issue election May 29.
- Tex., Kenedy—Bd. of Trustees Kenedy Ind. School Dist. receives bids May 15 for \$25,000 4½% \$1000 denom. bonds.
- Tex., Millersview—School—City voted \$20,000 bonds.
- Tex., Port Arthur—City, J. P. Logan, Mayor, considering bond election for street re-topping and extending, drainage improvement, park expansion and maintenance, bridge across Sabine-Neches canal.
- Tex., Three Rivers—School—Town votes May 12 on \$50,000 bonds.
- Tex., Trinity—School—City voted \$80,000 bonds. 3-29
- Tex., Victoria—Road—Victoria County will sell soon, \$1,092,000 bonds. 12-1-1927
- Tex., Victoria—City Council passed ordinance to refund \$75,000 municipal bonds; city will issue in their place serial 30-yr. 4½% bonds; J. R. Phillips Investment Co., Houston, agreed to purchase bonds: \$10,500, water; \$19,500, fire station; \$20,000, street and bridge; \$25,000, sewer disposal plant.
- Tex., Wheeler—Road—Wheeler County voted \$1,000,000 bonds. 3-22
- Va., Boydton—Water, Sewer—City plans voting soon on \$75,000 bonds.
- Va., Portsmouth—Road, Bridge—Norfolk County Bd. of Suprs., A. B. Carney, Clk., receives bids May 17 for \$150,000 4½% \$1000 denom. bonds.
- Va., Fairfax—Water—City votes June 12 on \$30,000 bonds.
- Va., Lynchburg—City Council authorized \$600,000 bond issue for general improvements, for 2 years.
- Va., Portsmouth—Water—City, Frank C. Hanrahan, Mgr., votes June 12 on bonds.
- Va., Richmond—Street—Mayor Bright considering \$500,000 bond issue.
- W. Va., Logan—Road—Logan County votes May 29 on \$300,000 dist. bonds.
- School Dist. 6 coupon bonds to John Nuveen & Co., Chicago, Ill., 104.90. 3-29
- Fla., Bunnell—Flagler County Commrs. sold \$150,000 6% \$1000 denom. Special Road and Bridge Dist. bonds to Well, Roth & Irving Co., Cincinnati, Ohio, and Wright, Warlow & Co., Orlando, Fla., 104.11 and accrued interest. 4-19
- Fla., Gainesville—Alachua County Bd. of Public Instruction sold \$20,000 6% \$250 denom. La Crosse Special Tax School Dist. 8 bonds to Prudden & Co., Toledo, Ohio, 90% of par and accrued interest. 4-12
- Ky., Frankfort—Debt—City, M. Parrent, Clk., sold \$120,000 bonds to R. L. Gardner, subject to court decision.
- La., Lake Charles—Drainage—Calcasieu Parish, Vinton Gravity Drainage Dist. 2, sold \$40,000 5½% bonds to Calcasieu Natl. Bank, par, accrued interest. 4-12
- La., Many—Road—Sabine Parish Police Jury sold \$25,000 6% Road. Dist. 8 bonds to J. H. Reeves, Peason, \$5 premium. 4-6
- Md., Rockville—Indebtedness—Montgomery County sold \$200,000 4½% bonds to Townsend Scott & Son, Baker, Watts & Co., Nelson, Cook & Co., all Baltimore, par and accrued interest.
- Miss., Greenwood—Street—City Council sold \$20,000 5% \$1000 denom. bonds to Meridian Finance Corp., Meridian, Miss.
- Miss., Long Beach—School—Jas. E. McCormack, Town Clk., sold \$30,000 5% bonds to Meridian Finance Corp., Meridian, \$485 premium. 4-19
- N. C., Elkin—Water, Sewer—Alex. Chatham, Jr., City Clk., sold \$60,000 4½% \$1000 denom. bonds to Poor & Co., Cincinnati, Ohio, \$105 premium.
- N. C., Kenansville—School—Duplin County sold \$140,000 4½% bonds jointly to Otis & Co., Cleveland, Ohio, and Duffey & Marr, Raleigh, \$3178 premium.
- N. C., Kinston—School—Lenoir County sold 4½% \$1000 denom. bonds to W. K. Terry & Co., Toledo, Ohio, par, accrued interest, \$929 premium.
- N. C., Windsor—Bertie County Commrs., S. W. Kenney, Clk., sold \$123,700 funding and \$26,300 school funding 4½% bonds to Griswold-First State Co., New York, 101.91. 4-5
- Okla., Muskogee—Improvement—City Council sold \$51,000 Honor Heights bonds to First Trust & Savings Bank, Tulsa; accepted bid of City of Muskogee for balance of \$60,000 issue.
- S. C., Aiken—Aiken County Commrs. sold \$1,150,000 4½% bonds to group, composed of Guaranty Co., and Rogers Caldwell & Co., Inc., both New York; Ames, Emerich & Co., Chicago, Ill.; Peoples Securities Co., Charleston, 101.449. 3-19
- S. C., Columbia—Highway—Capital Highway Commrs., Richland, Lexington and Saluda Counties, B. W. Crouch, Chmn., Saluda, sold \$1,800,000 4½% bonds, jointly, to W. R. Compton Co., St. Louis, Mo.; A. B. Leach & Co., Inc., Howe, Snow & Co., Inc., both New York; Detroit Co., Detroit, Mich.; Taylor, Ewart & Co., Chicago, Ill.; Curtis & Sanger, Boston, Mass.; Peoples Natl. Bank, Rock Hill, S. C., 101.029. 4-12
- Tenn., Nashville—Hilary E. Howse, Mayor, sold \$135,000 bonds to C. W. McNear & Co., Chicago, Ill.; \$65,000, 4½% general improvement, premium \$125; \$70,000, 4% par.
- Tex., Beaumont—School—City sold \$1,500,000 4½% and 4½% denom. bonds to George L. Simpson & Co., Inc., Dallas. 4-19
- Tex., Brownville—Airport—City Comm. sold \$100,000 4½% bonds to A. C. Allyn Co., Chicago, Ill., par, accrued interest, \$2800 premium. 4-19
- Tex., Cuero—School—City sold \$125,000 5% bonds to Dallas Trust & Savings Bank, Dallas, par plus \$6600 premium. 4-19
- Tex., Madisonville—Road—Madison County sold \$199,500 5% bonds jointly to H. C. Burt & Co., Houston, Tex., Brown-Crummer Co., Wichita, Kans., \$2135 premium.
- Tex., Odem—Bd. of Trustees Odem Independent School Dist. sold \$70,000 5% \$1000 denom. bonds to Thomas Investment Co., Dallas, Tex., \$73,300. 4-19
- Tex., Sterling City—Road—D. C. Durham, Sterling County Clk., sold \$201,000 5% \$1000 denom. bonds to R. J. Edwards, Inc., Oklahoma City, Okla. 4-5

(Continued on page 128)

Bond Issues Sold

- Ala., Fairfield—School—G. C. Culpepper, Clk.-Treas., sold \$150,000 5% bonds jointly to Well, Roth & Irving Co., Cincinnati, Ohio, and W. L. Slayton & Co., Toledo, Ohio, \$8550 premium. 4-12
- Ark., Arkadelphia—Commrs. of Paving Imp. Dist. 4, Leslie Goodloe, Sec.-Treas., sold \$202,000 5% \$500 bonds to American Southern Trust Co., Little Rock, 99½ and accrued interest. 4-19
- Fla., Bartow—Polk County Bd. of Public Instruction sold \$25,000 6% Special Tax

JOHN NUVEEN & CO.

First National Bank Building

CHICAGO

We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale

HAVE YOU BONDS FOR SALE?

WE BUY ALL CLASSES OF MUNICIPAL BONDS, INCLUDING CITY, COUNTY, SCHOOL, PAVING, ROAD AND DRAINAGE

The Hanchett Bond Co. Inc.

39 SOUTH LA SALLE ST., CHICAGO

**Taylor,
Wilson
& Co. Inc.**
INVESTMENT SECURITIES

WE BUY MUNICIPAL BONDS

Public officials are invited to avail themselves of our facilities for preparation of legal details.

Your inquiry receives prompt attention.

UNION TRUST BLDG. CINCINNATI

WE BUY MUNICIPAL BONDS

We are interested in the purchase of Southern Municipals including road, school, county, drainage and levee bonds.

M. W. ELKINS & CO.

Home Insurance Bldg.

Little Rock, Ark.

THE OSCAR T. SMITH & SON CO.*Manufacturing***BANK AND COMMERCIAL STATIONERS**

407-9-11 E. Saratoga Street

BALTIMORE, MD.

CHARACTER**QUALITY**

—SERVICE—

WILMER BLACK, C. P. A. ROBERT W. BLACK, C. P. A.

BLACK & COMPANY
CERTIFIED PUBLIC ACCOUNTANTS

OFFICES:

Suite 905 GARRETT BUILDING - BALTIMORE, MD.
Suite 403 FIRST NAT'L BANK BLDG. - HAGERSTOWN, MD.

Delaware Corporations
Forms, Law and Printers

*Estimates of Cost Furnished Without Cost***DELAWARE REGISTRATION TRUST CO.**

100 West Tenth Street
Wilmington, Del.

J. Ernest Smith, President and General Counsel.
Chas. Warner Smith, Vice-President.
Harry W. Davis, Secretary and Treasurer.

CONSERVATIVE INVESTMENTS

General Securities Corporation purchases, underwrites and distributes (both wholesale and retail) sound industrial, municipal, utility and other secured corporate obligations.

It finances operations, reorganizations and consolidations.

Its resources, connections and facilities are at the disposal of manufacturers, utilities and municipalities having financial problems.

GENERAL SECURITIES CORPORATION

INVESTMENT BANKERS

*Birmingham, Alabama***THE ROBINSON-HUMPHREY COMPANY**
MUNICIPAL AND CORPORATION BONDS*Established 1894*

ATLANTA, GA.

We Underwrite MUNICIPAL BONDS in States of
GEORGIA and SOUTH CAROLINA

We Buy Bonds

City, County, School and Road from
Municipalities and Contractors

WRITE

THE PROVIDENT SAVINGS BANK & TRUST CO.
CINCINNATI OHIO

Municipalities
Corporations
Railroads

*Financed***MARX & CO.**BIRMINGHAM
ALABAMA*We Buy and Sell*

MUNICIPAL BONDS AND NOTES
CORPORATE PREFERRED
STOCK and BOND ISSUES

See Us on Southern Financing

R. S. DICKSON & CO., Gastonia, N. C.
New York Greenville, S. C. Goldsboro, N. C.

FINANCIAL NEWS

(Continued from page 126)

Va., Accomac—Road—Accomac County Bd. of Supvrs., sold \$86,000 4½% Atlantic, Lee and Pungoteague Magisterial Dist. bonds to Investment Corp. of Norfolk, and Davis & West, Norfolk, \$1506 premium. 4-5

New Financial Corporations

Ala., Mobile—American Natl. Bank of Mobile, Battle House, capital \$500,000, organized; Wm. C. Thompson, Pres., Mt. Vernon, N. Y., S. A. Tonsmeire, V.-P., Mobile.

Ark., Smackover—Smackover State Bank, capital \$25,000, organized; Leo Berg, Pres.; J. H. Meek, V.-P., both Camden. 4-26

Md., Baltimore—Universal Credit Co. organized; George H. Zimmerman, V.-P., Wyman Pk. Apts.

Md., Chevy Chase—Consolidated Investment Corp., 113 Oxford St., incorporated; Edmund D. Campbell.

N. C., Morganton—Morganton Industrial Bank, capital \$100,000, chartered; J. H. Giles, Glen Alpine; J. Fred Kistler, S. R. Collett, Morganton.

N. C., Rocky Mount—Laborers Loan & Investment Co. of Rocky Mount, capital \$10,000, chartered; J. C. Culbreth, Sharpsburg; H. W. Townsend, J. H. Albritton, Rocky Mount.

Tex., Beaumont—Investors Bond and Mortgage Co., capital \$50,000, chartered; J. D. Gore, 2300 McFaddin St.

Tex., Paducah—Citizens State Bank, capital \$50,000, chartered; Charles Phillips, V.-P.; Edgar Pace, Cashier.

First National Bank and Guaranty State Bank, both Weatherford, Okla., consolidated as First State Bank; F. D. Lucas, Pres.; L. A. White, V.-P.

First State Bank, Liberty Hill, Tex., purchased by, and will be consolidated with, First State Bank, Leander, Tex.; C. R. Mayfield, Pres. of both banks.

Nashville, Chattanooga & St. Louis Railway.

Net income of \$2,325,820 after all charges in 1927 is disclosed in the annual report of the Nashville, Chattanooga and St. Louis Railway, the net revenue from operations having been \$4,623,171, the freight handled having been 1,241,023,549 ton-miles and the passenger-miles having run to 113,447,092. "Passenger receipts continue to reflect the loss of travel to buses and private automobiles," says the report, while "the constantly enlarging tax bill and the operation of the present law permitting arbitration awards with respect to wages make the attainment of proper development and satisfactory financial return more and more difficult." The credit balance for 1927 was \$18,933,695, as compared with \$17,708,485 for 1926. Approximately 1260 miles were operated in 1927.

Electric Bond and Share Report.


Electric Bond and Share Securities Corporation and Electric Bond and Share Company in their report for 1927 show the gross income of Electric Bond and Share Company as \$18,513,299 and the balance, after the payment of dividends on the 6 per cent preferred stock, as \$9,522,393, this amount being applicable to Electric Bond and Share Securities Corporation. The report adds that the Electric Bond and Share Company has added substantially to its holdings of securities in some of its associated holding companies, notably American and Foreign Power Company, Inc., and that the aggregate market value of se-

curities owned by it is now greater than at any previous time and the market value of the assets is materially larger than the book value. Investments on the balance sheet are carried at \$106,372,980, as compared with \$72,012,031, December 31, 1926. Current assets at the end of 1927 aggregated \$17,822,462 and current liabilities \$2,228,014. Surplus was \$21,039,062.


Book Review

What About Advertising? By Kenneth M. Goode and Harford Powel, Jr. New York: Harper & Brothers. Cloth. Pp. 392. \$3.50.

In interesting and convincing fashion, the authors of this book have compiled a vigorous and constructive answer to unreasonable criticisms on advertising. Addressed, as it is, "to everyone who is in any way concerned to spend money profitably for advertising," it is designed to be, and undoubtedly will prove to be, of help to advertisers and advertising agencies in working out, by their own methods, uses for their appropriations "which will make more money." In short, it shows how advertising should be tested as a hook-up with human nature. Actual campaigns are recorded, various tested methods are described, results of different kinds of appeals are explained, and the book is a practical working guide, as well as an analysis of the economic basis of advertising.




AT YOUR SERVICE IN BALTIMORE



MARYLAND TRUST COMPANY


Northwest Corner
Calvert and Redwood Streets



MEMBER FEDERAL RESERVE SYSTEM



YOUR BUSINESS SOLICITED
Particular attention given to financing
SOUTHERN PROPERTIES



Special Deposits

Real Estate Loans

Trust Facilities

High Grade Bonds

THE CENTURY TRUST COMPANY
of Baltimore

Capital \$1,000,000 Surplus \$1,700,000

THE BANK OF ALABAMA

ENSLEY, ALABAMA

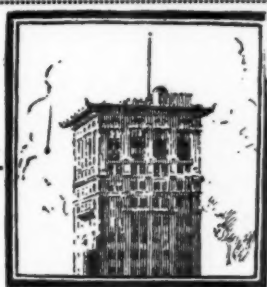
R. A. TERRELL.....	President
J. W. MINOR.....	Vice-President
FOSTER HAMILTON.....	Cashier

We Solicit Your Business

KEEP IN TOUCH
With Southern Activities

Read the

Manufacturers Record
EVERY WEEK



Our Record in the Past:
The Soundest Prophecy of
What May Be Expected of
Us in the Future.

WE believe you will be
interested in hearing
how we are especially
equipped to help you de-
velop your business through-
out the South.

**FIRST AND MERCHANTS
National Bank of Richmond**

JOHN M. MILLER, JR., *President*

Capital and Surplus Six Million Dollars

**Bankers, Manufacturers, Merchants,
of the South**

When in Baltimore, drop in and see us.
Maybe we can serve you in some way. The
acquaintance may prove mutually helpful.

BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, *President*

26 South Street, Baltimore, Md.

Capital and Surplus \$1,350,000

Member Federal Reserve System

"The Early 1880's in Baltimore"

Southern men and women who lived in, or
visited Baltimore in the period when this Com-
pany was established—which was the year of
1884—will be interested, we believe, in our an-
niversary book "The Early Eighties: Sidelights
on the Baltimore of forty years ago." A copy
will be sent upon request.

**MERCANTILE TRUST & DEPOSIT CO.
OF BALTIMORE**

Resources \$21,000,000 A. H. S. POST, Pres. F. G. BOYCE, Jr., Vice-Pres.

Southern Progress

IN education, manufac-
turing, public improve-
ments and wealth, the
progress of the South in
the past decade has been
unprecedented.

Bankers, manufacturers
and merchants, in ar-
ranging their financial
programs, will find us a
dependable and capable
ally. Our long experi-
ence and complete com-
mercial banking facilities
for both domestic and
foreign business are at
your disposal.

Bank of New York & Trust Co.

76 William Street
New York

**Capital, Surplus and Undivided Profits
over \$18,000,000**



THE HUNTER DULIN BUILDING
San Francisco, Calif.

22,000 yards of Gold Seal Battleship
Linoleum used for office floors—
for tenants' comfort and economy
in installation and maintenance.

Architects
SCHULTE & WEAVER

Contractors
LINDGREN & SWINERTON, INC.

The difference between *renting* and *"waiting"* ... *bridge it with a Bonded Floor!*

The prospective tenant has just arrived!

The building is desirably located from his point of view—or he wouldn't have called.

He seems to think the price mentioned fair enough . . . "Let's see the space", he asks . . . it looks as if the deal would go through . . . you throw open the door . . . in he walks. What now!

Does he face bare, cold-looking floors—which show up so plainly in unfurnished space? Too often the difference between "signing up" and "walking out" depends on this one thing; the space lacks that finished, livable appearance given by a modern, resilient floor.

Is it good business to run the risk of losing tenants through uninviting new floors or run-down old ones?

You can so easily have up-to-date, comfortable, business-like floors which attract on sight and please throughout the years.

For BONDED FLOORS of Gold Seal Battleship and Jaspé Linoleum now have a unique, soil-proof super-finish. This improvement, due to the *Sealex* Process, makes these resilient floors impervious to dirt, grease, ink and other spots and stains.

Building owners all over the country have installed BONDED FLOORS, to attract new tenants and to hold old ones. Write Department M for costs, maintenance information, etc.

BONDED FLOORS CO., INC. New York Boston Philadelphia
Pittsburgh Chicago Detroit San Francisco
W. A. LIPPINCOTT, INC., Atlanta, Ga., Charlotte, N.C., Jacksonville, Fla.
BAKER CORK & TILE COMPANY, Washington, D. C., Baltimore, Md.,
SOUTHWESTERN FLOORING & SALES CO., Dallas, Texas

BONDED FLOORS

Resilient Floors Backed



by a Guaranty Bond



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close May 9, 1928.

Sealed bids, indorsed "Bids for Specification No. 5559," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock A. M. May 9, 1928, and then and there publicly opened, for complete removal and rebuilding of seven timber piers with creosoted piles at the Submarine Base, New London, Conn., including railway tracks, fuel oil, diesel oil, water and air lines and cables for light, power, signal and battery charging. Specification No. 5559 and accompanying drawings may be obtained on application to the Bureau or to the Commanding Officer, Naval Submarine Base, New London, Conn. Deposit of a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawings and specification. P. L. Reed, Acting Chief of Bureau, April 12, 1928.

Bids close May 21, 1928.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., April 21, 1928.—SEALED BIDS will be opened in this office at 3 P. M., May 21, 1928, for furnishing of all labor and materials and performing all work required for the construction of the foundations, etc., of the building for the U. S. Bureau of Internal Revenue, Washington, D. C. The work will include excavation, concrete pile foundations consisting of approximately 7000 piles, reinforced concrete pile capping, footings and foundation walls, waterproofing, damp-proofing, etc., for a building of approximately 185,000 square feet ground area. Work to be completed in five months. Certified check or bid bond of 2 per cent of the amount of the bid must accompany each proposal. Performance bond of 50 per cent of the amount of the contract will be required. Not exceeding six sets of drawings and specifications will be furnished to general contractors on request. In the discretion of the Supervising Architect, provided a deposit of fifty dollars (\$50) is made for each set. Deposits will be refunded on return of the drawings and specifications in good condition. Checks must be certified and made payable to the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

Bids close May 7, 1928.

Reinforced Concrete Bridge

Clearwater, Fla.

Sealed proposals will be received by the City of Clearwater, Florida, until 7.30 P. M., May 7, 1928, for constructing a reinforced concrete bridge on Betty Lane across Stevenson Creek. Approximate quantities are:

470 lin. ft. Foundation Piling.

170 cu. yds. Reinforced Concrete.

Blank forms of proposal and specifications will be furnished prospective bidders. Plans for the same are on file in the office of the City Engineer of said City, where they may be obtained by making a deposit of \$10.00, which deposit will be returned only to bona fide bidders.

Certified check of \$500.00 is required with each bid and bond for 100% of the contract price will be required of the successful bidder, such bond to be a bond with reputable and responsible surety company as surety and written by company or companies authorized to do business in the State of Florida.

The City reserves the right to reject any and all bids.

The City reserves the right to increase or decrease the amount of work included in these specifications without affecting in any way the contract prices and without affecting the specifications or contract in any other respect.

Bids on complete alternate plans will be considered.

H. S. RIDDLE,
City Manager.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE

MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close May 31, 1928.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., April 25, 1928.—SEALED BIDS will be opened in this office at 3 P. M. May 31, 1928, for furnishing all labor and materials and performing all work required for the construction of the U. S. new Postoffice at Olyphant, Pa. Not exceeding six sets of drawings and specifications will be furnished to general contractors on request. In the discretion of the Supervising Architect, provided a deposit of fifteen dollars (\$15) is made for each set. Deposits will be refunded on return of the drawings and specifications in good condition. Checks must be certified and made payable to the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

Bids close May 15, 1928.

Bridge Improvements

Stuart, Fla.

Sealed bids will be received by the Board of County Commissioners of Martin County, Florida, at the Courthouse, Stuart, Florida, until 10 A. M. Tuesday, May 15, 1928, for building hydraulic fill approaches, removing the existing wooden truss superstructure and replacing with steel girders and creosoted timber deck, in accordance with plans and specifications as prepared by the County Engineer.

APPROXIMATE QUANTITIES

Structural Steel, 350,000 Lbs.

Creosoted Timber, 186 M-F. B. M.

Untreated Timber, 16 M-F. B. M.

Hydraulic Fill, 80,000 Cu. Yds.

Movable Span not included in this contract.

Blank forms for bids and specifications will be furnished to prospective bidders. Plans for the same are on file in the office of the County Engineer at Stuart, Florida, where they may be examined or copies obtained upon deposit of ten (\$10) dollars.

Certified or cashier's check for five (5%) per cent of the amount bid is required with each bid and a bond for the contract price will be required of the successful bidder, bond to be a bond with a reputable surety company as surety, and having a resident agent in Martin County, Florida.

The Board of County Commissioners reserves the right to reject any and all bids or to let part of the contract to one bidder and part to another.

The Board of County Commissioners reserves the right to increase or decrease the amount of work, not to exceed 20% of the total amount, included in these specifications without affecting the unit prices or the contract in any other respect.

By order of the Board of County Commissioners of Martin County, Florida.

H. N. GAINES,

Chairman of the Board.

E. H. GIBSON,
County Engineer.

Bids close May 8, 1928.

\$28,000 School Bonds

Yemassee, S. C.

Sealed bids will be received by the Trustees of Yemassee School District No. 28 on or before the 8th day of May, 1928, at Yemassee, S. C., at 10 o'clock A. M., for the sale of Twenty-eight Thousand (\$28,000) Dollars of Yemassee School District Bonds, said bonds to bear interest at a rate not exceeding six per cent per annum, and will mature serially, first bond two years from date and the last bond not more than twenty years from date, interest payable annually or semi-annually, as purchaser desires.

The Trustees reserve the right to reject any and all bids, and if no bids are accepted will proceed to sell said bonds at auction. All bids must be accompanied by certified checks for Five Hundred (\$500) Dollars, payable to said Trustees, to show good faith of the bidder, and must be deposited with the Trustees before 10 o'clock A. M. on May 8, 1928.

For any information concerning these bonds apply to H. McM. Williams, Chairman, Yemassee, S. C.

Bids close May 21, 1928.

Three Bascule Bridges

Miami, Florida.

Sealed proposals, to be filed with the City Clerk, will be received by the City of Miami, Florida, until 3 o'clock P. M. May 21, 1928, at the meeting of the City Commission, for the construction of three bridges over the Miami River—one at N. W. 17th Avenue, one at S. W. First Street and the third at S. E. Second Avenue.

All three of the bridges will consist of double-leaf bascules, two 75 feet and the third 94 feet clear between fenders. The roadway on two of the bridges will be 48 feet wide, with two 6-foot sidewalks on each side, and on the third the roadway will be 52 feet wide, with two 8-foot sidewalks.

The work on each bridge will be divided into two parts, one part including structural metal and machinery and the other part including foundations and approaches. Both parts may be awarded to the same contractor.

Bids will be received for construction according to the official plans prepared by Harrington, Howard & Ashe, and also according to alternate plans prepared by Scherzer Rolling Lift Bridge Company and by Daniel B. Luten.

Each bid shall be accompanied by a certified check on a Florida Bank or Trust Company or a bidder's bond for not less than 2 1/4% of the gross bid, made payable to the City of Miami, which shall be forfeited as liquidated damages by any bidder who is awarded the contract and who fails to promptly execute contract and bond. Checks of unsuccessful bidders will be returned after award of contract.

Official plans and specifications may be examined in the office of Ernest Cotton, Director of Public Service, Miami, Florida, and in the offices of Harrington, Howard & Ashe, Kansas City, Mo., and New York City. Copies of the official plans may be secured from the Consulting Engineers or the Director of Public Service by depositing twenty-five dollars (\$25) per set for each bridge, which amount is to be refunded on return of copies in good condition. Copies of the alternate plans may be secured with the official plans from the office of the Director of Public Service, Miami, Florida, without additional cost.

The City of Miami reserves the right to reject any or all bids and to waive any informalities in any bid.

WELTON A. SNOW,
City Manager.

Bids close May 25, 1928.

WAR DEPARTMENT, United States Engineer Office, Montgomery, Ala. SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received until 2 P. M. May 25, 1928, and then publicly opened, for furnishing all labor and materials and performing all work for constructing and delivering one steel hull for dredge "Blackwater." Further information on application.

Bids close May 18, 1928.

Sealed proposals for furnishing and delivering supplies will be received at the office of the General Treasurer, National Home for Disabled Volunteer Soldiers, until 10 o'clock A. M. May 18, 1928, for alcohol, whiskey, oleomargarine, O. D. Cloth, hats, socks, etc.; soaps, washing sodas, etc., and until 10 o'clock A. M. May 28, 1928, for shoes, underwear, shirts, sheets, towels, chinaware, stationery, etc., for the year ending June 30, 1929. Requirements will be furnished upon application to C. W. Wadsworth, General Treasurer, National Military Home, Dayton, Ohio.

Bids close May 10, 1928.

Virginia Highway Work

Richmond, Virginia.

The Commission will receive bids on:
 Proj. Length Type
 S167CJK 0.37 Mi. Bit. Macadam, inc. Bridge.
 S296A 6.2 Mi. Concrete
 Details obtainable on request.

Bids close May 15, 1928.

State Highways

DEPARTMENT OF PUBLIC WORKS
 STATE OF MARYLAND
 STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building eight sections of State Highway as follows:

Washington County, Cont. W-55—One section of State Highway from Williamsport toward Lappans for a distance of 1.0 mile. (Mac. Resurf.)

Frederick County, Cont. F-50-A—One section of State Highway from Thurmont toward Sabillasville for a distance of 1.0 mile. (Concrete Shoulders and Macadam Resurfacing.)

Calvert County, Cont. C-30—One section of State Highway between Lusby and Solers for a distance of 1.34 miles. (Gravel.)

Caroline County, Cont. Co-47—One section of State Highway between Ridgely and Bridgetown for a distance of 1.0 mile. (Concrete.)

Worcester County, Cont. Wo-52—One section of State Highway between Snow Hill and Public Landing for a distance of 2.0 miles. (Concrete.)

Allegany County, Cont. A-52—One section of State Highway along the Naves Cross-Roads from the National Pike to the Bedford Road, and along the Brad-dock Road between Cumberland and Allegany Grove for a distance of 1.09 miles. (Concrete Shoulders.)

Montgomery County, Cont. M-10-D—One section of State Highway between Norbeck and Olney, a distance of 3.1 miles. (Concrete Shoulders.)

Somerset County, Cont. S-7-A—One section of State Highway between Pocomoke and Westover, a distance of 7.47 miles. (Concrete Shoulders.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 15th day of May, 1928, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 24th day of April, 1928.

JOHN N. MACKALL, Chairman.
 L. H. STEUART, Secretary.

Bids close May 15, 1928.

Bridge Construction

LOUISVILLE BRIDGE COMMISSION
 Louisville, Ky.

Sealed proposals will be received by the Louisville Bridge Commission of Louisville, Ky., at the office of the Public Utilities Bureau, City Hall, Louisville, Ky., until 10 A. M. May 15, 1928, for the construction of the eight main piers of the bridge over the Ohio River to be built by the Louisville Bridge Commission. Bids will be publicly opened and read.

Following are the approximate amounts of work in this contract:
 Rock excavation 300 cu. yds.
 Foundation dowels 800 lin. ft.

Class "A" Concrete below bottom of stone facing... 9,400 cu. yds.
 Class "B" Concrete above bottom of stone facing... 11,200 cu. yds.

Stone masonry facing on all piers 4,700 cu. yds.
 Structural steel in place... 55,000 pounds.
 Reinforcing steel in place... 20,000 pounds.

Information for Bidders, Form of Proposal, Contract and Specifications, together with the Contract Drawings, may be had at the office of the Engineers, Ralph Modjeski and Frank M. Masters, Keystone Building, Harrisburg, Pa., upon the payment of Ten Dollars (\$10). A refund of Five Dollars (\$5) will be made when the documents are returned in good condition.

Each proposal shall be made upon the Form of Proposal furnished with the contract documents and must be accompanied by a certified check in the amount of Twenty-five Thousand Dollars (\$25,000), drawn upon a State or national bank or trust company doing business in the City of Louisville, and the bid must be accompanied with a Surety's Consent.

The right to accept any bid or reject any and all bids is reserved.

Louisville Bridge Commission.
 By WILLIAM BLACK,
 Chairman.

Bids close May 8, 1928.

State Highways

DEPARTMENT OF PUBLIC WORKS
 STATE OF MARYLAND
 STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building six sections of State Highway as follows:

Baltimore County, Cont. B-87—One section of State Highway between Glyndon and Dover for a distance of 1.5 miles. (Concrete.)

Howard County, Cont. Ho-53—One section of State Highway along Cherry Lane from end of Cont. Ho-28 to the New Cut Road, a distance of 0.34 mile. (Concrete.)

Anne Arundel County, Cont. AA-55—One section of State Highway from the Patapsco River Bridge to Linthicum and along the Nursery Road for a distance of 3.48 miles. (Concrete.)

Harford County, Cont. H-61—One section of State Highway through Pylesville, including Reinforcing Concrete Bridge over Broad Creek, for a distance of 0.2 mile. (Concrete.)

Cecil County, Cont. Ce-65—One section of State Highway from Calvert toward Bayview for a distance of 2.5 miles. (Concrete.)

Somerset County, Cont. S-29—One section of State Highway from Princess Anne toward Mt. Vernon for a distance of 1.0 mile. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 8th day of May, 1928, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 19th day of April, 1928.

JOHN N. MACKALL, Chairman.
 L. H. STEUART, Secretary.

Bids close June 15, 1928.

Bridge and Approaches

OFFICE OF THE STATE ROAD
 DEPARTMENT

Tallahassee, Fla., April 27, 1928.

Sealed bids will be received at this office until 10 A. M. on the 15th day of June, 1928, for constructing the following project:

Project No. 769, Road No. 5, Lee County, Caloosahatchee River Bridge. The total length of project is 8141 feet, consisting of one (1) double-leaf, 80-foot Clear Channel Bascule Span, 4350 lineal feet of concrete pile trestle and approximately 3711 feet of hydraulic fill approaches. This bridge has 24-foot clear roadway and two 4-foot 6-inch sidewalks.

All work to be done in accordance with plans and specifications of the State Road Department.

A certified check, made payable to the Chairman of the State Road Department, in the sum of five per cent (5%) of the amount bid must accompany each proposal.

Plans may be examined at this office, at the office of the Division Engineer and may be obtained upon application to this office for the sum of \$5 for each set of plans.

The right is reserved to reject any or all bids.

F. A. HATHAWAY,
 Chairman.

J. L. CRESAP,
 State Highway Engineer.

Bids close May 23, 1928.

Road Improvements**Motorcycles**

Dover, Del.

Sealed proposals will be received by the State Highway Department at its office, Dover, Delaware, until 2.30 o'clock P. M. May 23, 1928, and at that place and time publicly opened, for contracts involving the following approximate quantities:

CONTRACT 90
 Bay Road, 3.769 Miles
 15,000 Cu. Yds. Excavation.
 500 Cu. Yds. Borrow.
 6,580 Cu. Yds. Cement Concrete Pavement.
 OR 6,580 Cu. Yds. Cement Concrete Pavement (Slag Aggregate).
 19,900 Lin. Ft. Longitudinal Metal Joint.
 OR 19,900 Lin. Ft. Longitudinal Joint.
 50 Cu. Yds. Class A Concrete.
 1,600 Lbs. Reinforcement.
 400 Lin. Ft. 15-in. Corrugated Metal Pipe.
 120 Lin. Ft. 15-in. R. C. Pipe.
 60 Lin. Ft. 18-in. R. C. Pipe.

CONTRACT 102
 Pennsylvania Avenue
 Greenhill Ave. to Rising Sun Lane
 0.35 Miles
 4,500 Cu. Yds. Excavation.
 200 Tons Broken Stone Base Course.
 2,500 Cu. Yds. Cement Concrete Pavement.
 1,600 Lin. Ft. Premoulded Bituminous Expansion Joint.
 14,000 Sq. Ft. Cement Concrete Sidewalk.
 20 Cu. Yds. Class A Concrete.
 225 Cu. Yds. Cement Rubble Masonry.
 4,000 Lbs. Cast-Iron Gratings.
 200 Lin. Ft. 15-in. T. C. Sewer.
 2,800 Lin. Ft. Concrete Curb.

CONTRACT P
 25 Motorcycles for State Highway Police.

Performance of contract shall commence within ten (10) days after execution of the contract and be completed as specified.

Monthly payments will be made for 90 per cent of the construction completed each month.

Bidders must submit proposals upon forms provided by the Department.

Each proposal must be accompanied by a surety bond, certified check or money to the amount of at least ten (10) per centum of the total amount of the proposal.

The envelope containing the proposal must be marked "Proposal for the construction of State Highway Contract No."

The contract will be awarded or rejected within twenty (20) days from the date of opening proposals.

The right is reserved to reject any or all bids.

Complete sets of plans and specifications may be obtained upon receipt of two dollars (\$2) for each contract, which amount will not be refunded.

STATE HIGHWAY DEPARTMENT.
 Dover, Delaware.

Bids close May 9, 1928.

Road Protection

Bay St. Louis, Miss.

Sealed bids will be received by the Road Protection Commission, Hancock County, Bay St. Louis, Mississippi, at the Court-house until 11 A. M. May 9, 1928, for the construction of certain road protection from Central avenue in Lakeshore, Mississippi, to the end of the wall near the north end of Julia street west of the corporate line of Bay St. Louis, with the exception of that portion of this roadway that has been paved within the City of Bay St. Louis.

The approximate quantities are as follows:

10,000 Cu. Yds. Earth Excavation.
132,600 Sq. Yds. Reinforced Concrete Pavement.
49,850 Lin. Ft. Combined Curb and Side-walk.
112 Lin. Ft. 18-in. and 24-in. Concrete Pipe.

Plans are on file in the office of the Chancery Clerk, Bay St. Louis, and at the Consulting Engineer's office, Bay St. Louis. Copies may be obtained at the office of James W. Billingsley, Consulting Engineer, Interstate Bank Building, New Orleans, La., upon payment of \$12.50, which will not be returned.

A certified check for five (5%) per cent of the total bid, made payable to the Chancery Clerk, Hancock County, must accompany all bids.

The right is reserved to reject any and all bids and to waive technical errors.

ROAD PROTECTION COMMISSION OF HANCOCK COUNTY, MISSISSIPPI.

By R. C. ENGMAN, Chairman.
BOARD OF SUPERVISORS OF HANCOCK COUNTY, MISSISSIPPI.

By H. S. WESTON, President.
JAMES W. BILLINGSLEY,
Consulting Engineer.

Bids close May 17, 1928.

Water Works and Sanitary Sewers

Warrenton, Georgia.

Sealed proposals will be received by the City of Warrenton, Georgia, for furnishing all labor, materials and equipment and constructing a Water Works and Sanitary Sewerage System, as per plans of Engineers, in and for the City of Warrenton, until 3 P. M. May 17, 1928, at which time they will be opened and read publicly.

The principal items of work are approximately as follows:

1 Deep Well Pump House.
1 Steel Tower and Tank.
1 Deep Well Pump.
148 Feet 12-in. Cast-Iron Pipe.
1,300 Feet 8-in. Cast-Iron Pipe.
3,950 Feet 6-in. Cast-Iron Pipe.
60 Feet 4-in. Cast-Iron Pipe.
10,250 Feet 1½-in. Galvanized Steel Pipe.
17 Fire Hydrants.
31 Valves.
15,000 Feet Sewer Pipe.
1 Septic Tank.
1 Sludge Bed.
Accessories to Water and Sewer System.

Bids must be accompanied by a certified check on a bank satisfactory to the city officials, or a bidder's bond acceptable to the city officials for five (5%) per cent of the amount of construction bid, drawn to the order of the City of Warrenton, Georgia, which will be forfeited to the city in event bid is accepted and bidder fails to execute contract and surety bond within ten days after award. Checks or bonds of unsuccessful bidders will be returned to bidders.

All bids will be compared on basis of Engineers' estimate of the amount of work to be done. Copies of specifications may be obtained from the Engineers or City Clerk upon receipt of \$5 deposit, which amount will be returned to bona fide bidders.

Plans may be seen at the office of the Engineers or the office of the City Clerk, or a set will be furnished by the Engineers upon payment of \$10, which amount will NOT be returned.

The right is reserved to reject any or all bids or to award contract to any bidder or bidders in part or as a whole, as considered to the best advantage of the city.

CITY OF WARRENTON, GEORGIA.
By J. F. RICKERTSON, Mayor.
L. F. WARE, Clerk.
J. B. McCRARY ENGR. CORP.,
Atlanta, Georgia.

Bids close May 10, 1928.

Water-Works System

Summerville, S. C.

Sealed proposals will be received by the Commission of Public Works of Summerville, S. C., on blank forms to be furnished by the Engineers not later than 3 P. M. May 10, 1928, in the office of the Commission, for the following:

For furnishing and installing approximately 53,700 feet of cast-iron pipe, valves, hydrants and fittings and 15,000 feet of 1½-inch galvanized steel pipe.

One 250,000 reinforced concrete storage reservoir.

Erecting pumping machinery which will be furnished by the town.

Furnishing and erecting one 100,000-gallon steel tank mounted on 100-foot tower.

Specifications may be obtained from the Engineers upon deposit of \$10, which deposit will be refunded if bid is submitted. Plans may be obtained by payment of \$2, which will not be refunded. Complete plans and specifications are on file in the office of the Commission.

COMMISSIONERS OF PUBLIC WORKS.

M. BARSHAY, Chairman.
RYAN ENGINEERING CO., Engrs.,
Arcade Building,
Columbia, S. C.

Bids close May 14, 1928.

School Building

West Point, Miss.

Sealed bids will be received in the office of the Secretary of the Board of Trustees of the Public Schools of the City of West Point, Mississippi, which is in the office of the City Clerk of said city, at 10 o'clock A. M., Tuesday, May 14, 1928, for the erection of a school building on the old Lynch School lot, as per plans and specifications now on file in the office of the Clerk of this Board.

Separate bids will also be received for heating, plumbing and electrical work.

Bidders must give bond in an amount equal to their bid for the faithful performance of their contract, and must specify the time within which the work is to be completed.

The Board reserves the right to reject any and all bids.

The contract will be let to the lowest bidder.

By order of the Board of Trustees of the Public Schools of the City of West Point, Mississippi, this April 20th, 1928.

W. H. VAN LANDINGHAM,
Clerk.

Bids close May 22, 1928.

Power-Plant Improvements

Leland, Miss.

The Mayor and Board of Aldermen of the Town of Leland, Mississippi, will receive bids at the Town Hall until 10 o'clock A. M. May 22, 1928, for equipment, material and labor necessary in the power-plant improvements.

The contemplated improvements require the following:

1—150 K.W. and one (1) 250 K.W. Diesel engine units, or
1—150 K.W. and one (1) 300 K.W. Diesel engine units, or
1—300 K.W. Una-Flow Steam Engine unit and
1—200 H.P. Water Tube Boiler.
2—750 G.P.M. Motor-driven Centrifugal Fire Pumps and Plant Switchboard.

Plans and specifications will be on file at the office of the Town Clerk, Leland, Mississippi, and at the office of the ENGINEERS.

Plans and specifications can be obtained from the ENGINEERS, SWANSON-McGRAW, INC., 426 Balter Building, New Orleans, La., by depositing five dollars (\$5), which is not refundable.

Each bid must be accompanied by certified check (bidder's bond not acceptable) in an amount of five per cent (5%) of the gross amount bid as evidence of good faith.

The right is reserved to reject any or all bids, waive any or all formalities or accept any bid or bids which in the opinion of the Board appear to be to the best interest of the town.

J. T. MATHIS, Mayor.
J. H. O'QUINN, Clerk.
SWANSON-McGRAW, INC.,
Consulting Engineers,
Balter Building,
New Orleans, La.

Bids close May 14, 1928.

Reinforced Concrete Reservoir

Easton, Md.

The Easton Utilities Commission will receive and open at their office in Easton, Maryland, at 2.30 o'clock P. M. on Monday, May 14, 1928, sealed proposals for the complete construction of a Reinforced Concrete Reservoir of 500,000 gallons capacity.

Proposal blank, form of contract, specifications and plans may be had at the office of the Commission or from the Town Engineer upon a deposit of two dollars (\$2).

A certified check for two hundred dollars (\$200) must accompany all bids.

The Easton Utilities Commission reserves the right to reject any or all bids.

THE EASTON UTILITIES COMMISSION.
JNO. S. McDANIEL, Secretary.
E. G. KASTENHUBER, JR.,
Town Engineer.

Bids close June 5, 1928.

Water-Works Wells and Pumps.

Mount Dora, Florida.

Sealed proposals will be received by the Town Council of Mount Dora, Florida, until 7.30 P. M. Tuesday, June 5, 1928, for the furnishing and constructing of one or more deep wells and one or more screened wells, for pumping equipment adapted to these wells, for all necessary accessories to these improvements, and for such installation and sundry work as may be required to place them in satisfactory operation, in accordance with Plans and Specifications on file in the office of the Town Clerk of Mount Dora, where bids will be then received and publicly opened and read.

Plans and bid book of specifications, contract, etc., may be secured from the Engineers upon application, stating what parts of the work are of interest to the applicant, and accompanied by a deposit of Ten Dollars, Six Dollars and Two Dollars of which are refundable to bona fide bidders and to non-bidders, respectively, upon prompt return of the documents in good condition.

The waiving of technicalities, the rejection of any and all bids and other customary rights are hereby reserved by the Town Council.

TOWN OF MOUNT DORA, FLORIDA.

MR. A. C. QUIXLEY,
Chairman of Water Committee.
MR. W. J. JOHNSON,
Town Clerk.

MAIN ENGINEERING CO., INC.,
Engineers,
112 Baker Street,
Daytona Beach, Florida.

Bids close May 9, 1928.

Machinery, Tools and Supplies

**DEPARTMENT OF EDUCATION
OFFICE OF THE
BOARD OF SCHOOL COMMISSIONERS
MADISON AND LAFAYETTE AVENUES
Baltimore, April 25, 1928.**

SEPARATE SEALED PROPOSALS, in duplicate, addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 o'clock A. M. Wednesday, May 9, 1928, endorsed as follows:

"Proposals for Furnishing Machinery, Equipment, Tools and Supplies for Machine Shops for the Department of Education."

"Proposals for Furnishing Equipment and Supplies for Electrical Shops for the Department of Education."

"Proposals for furnishing Machinery, Equipment, Tools and Supplies for Wood Shops for the Department of Education."

Specifications for either of the above may be obtained at the office of the Director of Business Management of the School Board, Madison and Lafayette Avenues, Baltimore, Maryland.

Each bid must be accompanied by a certified check of the bidder for fifty dollars, made payable to the Mayor and City Council of Baltimore, and drawn on a clearing-house bank.

The successful bidder will be required to give bond for the faithful performance of his contract, and in an amount equal to the contract price, and to comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any or all bids.

JOSHUA R. JOLLY,
Acting Secretary Board of
School Commissioners.

Approved April 25, 1928.
WILLIAM F. BROENING,
President Board of Awards.

Bids close May 10, 1928.

Clamshell or Hydraulic Dredge Work

NOTICE TO CONTRACTORS

Baton Rouge, La.
Sealed Proposals will be received by the LOUISIANA HIGHWAY COMMISSION at their office in the Raymond Building, Baton Rouge, Louisiana, up to 11 o'clock A. M. THURSDAY, MAY 10, 1928,

at which time and place they will be publicly opened, for the following work:
STATE PROJECT 156-A, UNIT NO. 1, JEFFERSON PARISH, HAMMOND-NEW ORLEANS HIGHWAY.

Section "A," Unit No. 1, begins near the Orleans Parish Line at West End and extends in a westerly direction along the south shore of Lake Pontchartrain to the St. Charles Parish Line, a distance of 9.78 miles. This work consists of raising the embankment constructed by Sub-Drainage District No. 3 of the Fourth Drainage District of Jefferson Parish to elevation 29.0 ciro Datum. The completed embankment to have a top width of 70 feet, with side slopes of 2:1. Approximately 525,000 cubic yards (net) of embankment are to be placed. Bids are invited for constructing the embankment with a Clamshell dredge or with a Hydraulic dredge.

STATE PROJECT 156-B, UNIT NO. 2, ST. CHARLES PARISH, HAMMOND-NEW ORLEANS HIGHWAY.
Project 156-B, Unit No. 2, begins near

the St. Charles-Jefferson Parish Line and extends along the south shore of Lake Pontchartrain to the I. C. Railroad, about one-half mile northwest of the LaBranch depot, a distance of 5.72 miles. The work consists of filling the recently dug flotation canal and borrow ditch with material to be pumped in from the lake by a hydraulic dredge. Approximately 1,700,000 cubic yards of pumped-in material will be required.

Information as to the location, character of work, extent and class of material, terms of payment, regulations governing manner of submitting proposals and executing contract may, on application, be obtained at the office of the Louisiana Highway Commission, Raymond Building, Baton Rouge, Louisiana. Plans and specifications may be inspected at the office of the Commission in Baton Rouge, or will be furnished upon receipt of \$5.00 for each project, as payment therefor not to be refunded. Each bid shall be submitted on a form furnished by the Commission and shall be placed, together with the proposal guaranty, in a sealed envelope so marked as to indicate its contents without being opened. This envelope shall then be placed in another, which shall be sealed and addressed to the LOUISIANA HIGHWAY COMMISSION, REYMOND BUILDING, BATON ROUGE, LOUISIANA.

FRANK T. PAYNE, Chairman,
LOUISIANA HIGHWAY COMMISSION.
NICHOLLS W. BOWDEN,
State Highway Engineer.

Bids close May 8, 1928.

Store Front

Kosciusko, Miss.
opened May 8. Plans and specifications on file at office of Warren Potts, Merchants & Farmers Bank, Kosciusko, Miss.
For construction of new store front for The Potts Store at Kosciusko, Miss. Bids

Bids close May 14, 1928.

Water Mains

Easton, Md.
The Easton Utilities Commission will receive and open at their office in Easton, Maryland, at 2.30 o'clock P. M. on Monday, May 14, 1928, sealed proposals for excavating and backfilling about five thousand linear feet of trench, and for laying therein cast-iron water mains and fittings in sizes varying from 4 inches to 20 inches.

Proposal blank, form of contract, specifications and plans may be had at the office of the Commission or from the Town Engineer upon receipt of a deposit of two dollars (\$2).

A certified check for two hundred dollars (\$200) must accompany all bids.

The Easton Utilities Commission reserve the right to reject any or all bids.

THE EASTON UTILITIES COMMISSION.
JNO. S. McDANIEL, Secretary.
E. G. KASTENHUBER, JR.,
Town Engineer.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE
TWO DEPOSITS
OF LIMESTONE
IN NORTHWEST FLORIDA
Both large tonnage and high grade. Railroad runs through one and no great distance from other. Should interest Cement Manufacturers. Address
S. D. CRENSHAW,
P. O. Box 667, Richmond, Va.

TIMBER AND TIMBER LAND
I SPECIALIZE
in large tracts of timber. Buy, sell or trade.
BOB WORKMAN,
Tampa, Fla.

12,000 ACRES Virgin White and Red Oak timber, well located to highway, railroad. Estimated cut 50,000,000 ft. Write
Security Abstract Co., DeQueen, Arkansas.

18 MILLION FEET virgin stumpage in West Central Georgia; gum and oak predominate; bottom land, but not swampy. Trunk-line R. R. through center, siding on property; \$90,000. Cruiser's report and full details to bona fide buyer. KEITH WEBB & SON, 217 First National Bank Building, Chattanooga, Tenn.

FARM, FRUIT AND TRUCK LANDS

FLORIDA
FLORIDA Colonization Tracts. Farms, City property and Citrus Groves. Co-operative Association, giving resident and non-resident members' groves scientific care.
E. J. KAUFMANN, Realtor,
(Established 1918),
P. O. Box 15, Lakeland, Fla.

FLORIDA
400 ACRES, solid block, good agricultural land, 22 miles north of Tampa P. O., \$20 per acre. Send today for booklet and new list of Groves and Farms. Tampa-West Coast Realty Co., Opp. P. O. "Since before the War," Tampa, Florida.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms. Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

FARM, FRUIT AND TRUCK LANDS

NORTH CAROLINA
If interested
FOR HOME OR FOR INVESTMENT
In the great and rapidly developing STATE OF NORTH CAROLINA, especially in its leading city, Charlotte, or in a Southern Cotton Mill or Southern Mill Stocks, write to
F. C. ABBOTT & CO.,
Realtors and Investment Bankers
Nearly thirty years in Charlotte.

TEXAS
RIO GRANDE VALLEY—500 acres, \$50 an acre; fourth cash. Orange trees 50 years old joins. Abundant shallow well water. Fine for development and immense honorable profits. Blackshear, Brownsville, Tex.

EAST TEXAS, Gregg County, Farm—56 acres, well improved, situated on State highway, 4 miles from Gladewater and 8½ miles from Longview; 30 acres in cultivation, 6 Bermuda pasture, 20 timber; good water, outbuildings, electric lights available; rural school 1 mile; free transportation to Gladewater 11-grade high school. Price \$50 per acre; \$500 cash will handle; long time on balance. R. M. WOOD, Gladewater, Texas.

FARM, FRUIT AND TRUCK LANDS

TEXAS
ONLY \$3.50 bonus for 13,900 acres Oil land Brewster County, Texas. State debt \$1.25. This ranch will run 2000 cows. Victor Bengtson, 401 Nalle Bldg., Austin, Texas.

"TEXAS 'WINTER GARDEN' LANDS."
A subdivision in 20-40 acre tracts, cleared and irrigated; suitable for Citrus Fruits, Winter Vegetables, Staple Crops. Reasonable prices. INVESTIGATE our proposition TODAY.
BERMUDA LANDS COMPANY, Realtors,
501-4 Houston Building,
San Antonio, Texas.

BUSINESS OPPORTUNITIES

WONDERFUL OFFERINGS in machine shop; machinery business, carload of machinery and supplies, sawmill plant complete and many other industrial plants.
OLIVER CARTER, Wilmington, N. C.

FOR SALE—As a whole or one-half interest in a going lumber business. Manufacturers and retailers in Eastern North Carolina want partner to take active interest; ten thousand dollars needed. Address
AYDEN LUMBER & SUPPLY CO.,
Ayden, N. C.

FOR SALE—An unusual business opportunity is offered to purchase complete retail lumber and building material yard, located in Mobile, Ala., one of the fastest growing cities in the South. Complete new stock of lumber and building materials can be purchased at cost, and trucks and equipment at reasonable appraised value. Buildings and premises on sidetrack, leased at very low rental. Stock and equipment will inventory about \$25,000. Retail sales last month were in excess of \$18,000. Good reason for selling. Address P. O. Box 118, Mobile, Ala.

PUBLIC UTILITIES WANTED

HAVE CLIENTS with money to invest in public utilities, electric-power plants, waterworks systems and ice factories. Write George B. Baskerville, Cons. Engineer, 1616 Tenth Avenue, South, Birmingham, Ala.

INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development made by specialists in locating industries.

TECHNICAL SERVICE COMPANY
Woolworth Building New York City

INDUSTRIES WANTED

SUNBRIGHT, TENN., is offering Natural Gas at 15c per thousand to reliable manufacturers. We will arrange free land site and guarantee abundance of cheap labor. Healthiest all-year-round spot on earth. Good schools and churches on Cincinnati Air Line Highway and Sou. R. R. Write me.

W. A. MESSER, Sunbright, Tenn.

INDUSTRIAL PLANTS

A COMPLETELY EQUIPPED MILLWORK MANUFACTURING PLANT at Spartanburg, S. C., for Rent. A wonderful opportunity to the right party. Address SPARTANBURG LUMBER MFG. CO.

FOR SALE—Woodworking plant; buildings large and substantial; machinery modern, high speed; brick dry kilns, railroad siding. Located in good town in the Southeast on three trunk-line railroads. Mill can be operated as a planing and moulding mill or as a hardwood specialty mill. Hardwood and pine lumber and timber available. Terms to responsible parties. Address No. 6903, care Manufacturers Record, Baltimore, Md.

FACTORY SITES

RICHMOND, VA., Gateway to the South, is now attracting both new and old enterprises of large proportions and capital. We can offer on both sides of James River sites of most any size for factory or warehouse, with or without trackage, with facilities for electric power and lights. Local transportation general over territory for 10 to 20 miles. Five trunk-line railroads to all points of compass; direct steamers to New York, with New England connections. Climate for all-year work. Labor plentiful and of good spirit. Consult us if interested in this section. RICHMOND TRUST COMPANY. (Capital \$1,000,000.) Real Estate Department, Richmond, Va.

SALE OF LAND

MOBILE SHIPBUILDING CO.

600 feet river-front land in Mobile. Bounded by Todd Shipbuilding Company and Turner-Terminal Company. Suitable manufacturing or storage site. Sealed bids invited. Write

H. A. PHARR,
Trustee,
care First National Bank,
Mobile, Ala.

FACTORY SITES

"OFFER—Pulp and Paper Manufacturers, free site, three railroads, cheap timber, natural gas abundant, large salt mines, labor 25c per hour. P. O. Box 891, Shreveport, Louisiana."

PATENT ATTORNEYS

FREE "PATENT PARTICULARS" Sterling Buck, over 21 years Registered Patent Attorney. Prompt and thorough services. Suite M, 629 F, Washington, D. C.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St., N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Charlotte office convenient to South. PAUL B. EATON, Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.

FOREIGN AGENCY WANTED

SWISS-AMERICAN, going abroad, wishes to hear from American manufacturer desiring to establish business relations in Europe. Address No. 6901, care Manufacturers Record, Baltimore, Md.

AGENCIES WANTED

SUCCESSFUL SALES EXECUTIVE will represent product of merit in Cleveland and vicinity; references. Address No. 6896, care Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

MECHANICAL ENGINEER, member A. S. M. E., desires opening where his wide experience in selling, servicing and repairing large steam engines and other power-plant equipment can be used to advantage. Thoroughly familiar with the theory and practice of steam-power engineering. For further information, references, etc., address No. 6898, care Manufacturers Record, Baltimore.

CONSTRUCTION MANAGER, age 39, married, desires to connect with large construction company as resident manager, or large corporation doing its own building, or small corporation that needs capable man familiar with all parts of the business. Experienced in industrial, commercial, educational building, in charge of estimates, contracting, buying, subcontracts and field supervision. Location immaterial. Qualified by past experience similar capacity. Address No. 6893, care Manufacturers Record, Baltimore, Md.

MEN WANTED

WANTED—A lay-out with experience in all kinds of Plate work, including blast furnaces, who is capable of taking charge of laying-out department. Give age, salary expected, experience and references in first letter. This is a permanent connection with a large corporation in a Southern city. In reply refer to No. 6900, care of Manufacturers Record, Baltimore, Md.

MEN WANTED

WANTED

Experienced Building Superintendent.
KING LUMBER CO.,
Charlottesville, Va.

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation. American Security Credit Company, General Offices, St. Louis, Mo.

WANTED—First-class structural steel erector (non-union), experienced in bridge building and miscellaneous steel structures. Man must be capable of planning and supervising erection. State age, education, nationality, experience, salary desired to start and give references. Position permanent to right man. Operations in Tennessee, North Carolina and Virginia. Address No. 6902, care Manufacturers Record, Baltimore, Md.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established seventeen years. Send only name and address for details.

R. W. BIXBY, Inc.,
103 Downtown Bldg., Buffalo, New York.

HAULING

HAULING CONTRACT WANTED—Road material by yard, batch or ton mile. Also hauling of excavations. No job too large. C. C. May, 321 18th Ave., So., St. Petersburg, Fla.

CONTRACT WORK WANTED

PLATE WORKING MACHINERY—a complete line. General and Special Machinery. Castings: Grey Iron and Semi-Steel, any size up to 40,000 lbs. Brass, Bronze and Aluminum to 10,000 lbs. COVINGTON MACHINE COMPANY, INC., Engineers Founders Machinists Covington, Va.

MACHINERY AND SUPPLIES

FOR SALE—Extraordinary bargain, 6,000 8x12 Dry-wall Blystone Tile Pallets for sale at 10c each. Sold in any quantity desired, Nepperhan Concrete Products Corp., Yonkers, N. Y.

ICE-MAKING AND REFRIGERATING MACHINERY—New and rebuilt. Our prices on new Waynesboro Refrigerating Equipment and Household Electric Refrigerators very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. GEISER MANUFACTURING COMPANY, "Department E," Waynesboro, Pa.



SPECIAL ADVERTISEMENTS OF GENERAL INTEREST



IF YOU WANT TO GET—
Southern Business
Advertise in the
MANUFACTURERS RECORD

"A Good Picture of Your Plant"
R.J. Shutting
BIRD'S-EYE VIEW
ARTIST
Chattanooga Tennessee
Satisfied Clients in Fifteen States

TO ANY TOWN WANTING A COTTON MILL

Complete Mill—either an equipment or turn key job of complete mill from start to finish

I have for sale a complete spinning equipment of thoroughly modern machinery to make single or two ply yarns on 30s to 40s—20,000 spindles which can be furnished in one unit or in two units of 10,000 spindles each. Or can furnish with 40-inch Draper Looms to make print cloths. I can furnish this machinery at very reasonable price to any mill wanting machinery or will build a mill complete from start to finish using this machinery—at a price of \$40.00 per spindle on two ply yarns or \$42.50 per spindle on print cloth.

If desired can furnish practical men to operate mill, who will subscribe for five per cent of the capital stock of the mill and I can myself take or place an additional five per cent.

J. H. McADEN

200 South Cedar St.
CHARLOTTE, N. C.

303 McDuff Building
PAWTUCKET, R. I.

PATENTS FOR SALE

Manufacturers desiring to purchase new inventions, or to manufacture on a royalty basis, should consult us immediately regarding the following articles invented by our clients:

Shower Bath Cabinet; Fire Tower; Headlight; Tire Reeliner; Portable Air Jet for Paper-Making Machines; Buck Rake; Exercising Device; Battery Connector; Lifting Jack; Tool; Railway Gate; Weeler for Cultivators; Valve Grinder; Can Opener; Hair Curler; Fountain Brush; Comb; Insulator; Shade Fixture; Hatchet; Storm Proof Awning; Hose Reel; Threading Device; Ironing Board; Bar Spacer; Weeder; Toy; Lug Lock; Rail Joint (U. S. and French); Disk Sharpener; Safety Railway Crossing; Dress Shield; Nut Lock; Plow Attachment for Tractors; Loader; Stone Gatherer; Tire Guard; Vending Machine; Pen and Pencil Holder; Collar Button; Electric Light Socket; Petroleum Separator; Fishing Rod; Dirigible Headlight; Memo-Calendar; Gauge Cock; Plow Attachment; Screw; Trap; Disk Brake; Clothes Stick; Game; Pen Nib; Pipe; Shoe Tongue; Car or Wagon (U. S. and Foreign); Spark Plug.

CHANDLEE & CHANDLEE

Patent Attorneys

900 F Street

Washington, D. C.

RANDOLPH-MACON SCHOOL FOR GIRLS

Danville, Virginia

(Branch of Randolph-Macon System)

Located in famous Piedmont Section of Virginia, one hundred and fifty miles southwest of Richmond.

Offers courses which meet maximum college entrance requirements. Certificate accepted. Post-graduate courses for those who wish additional preparation.

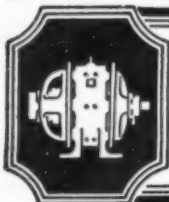
Piano, Voice, Violin, Art and Expression.

Experienced instructors.

Ideal school home. Modern conveniences. Large campus. Tennis, basketball, golf, etc.

Catalog gladly furnished.

John C. Simpson, A. M., Principal



RESALE DEPARTMENT

MACHINERY

EQUIPMENT

SUPPLIES



60 CY. 3 PH. GENERATORS
1—40 KVA, 1200 RPM, 2300 V. F. M.
1—40 KVA, 1200 RPM, 220 V. F. M.
1—50 KVA, 1200 RPM, 2300 V. G. E.
1—50 KVA, 1200 RPM, 220 V. G. E.
1—150 KW, 900 RPM, 220/440 V. G. E.
Large Stock Motors. Bargain Prices.
V. M. NUSSBAUM & CO.
Fort Wayne Indiana

1—125 KVA A. C. Gentr. 3 Phase—60 Cycles—2300 Volts to Fairbanks Morse 3 Cylinder Type Y Oil Engine—257 RPM.
1—170 KVA A. C. Gentr. 3 Phase—60 Cycles—2300 Volts to Fairbanks Morse 4 Cylinder Style V Oil Engine—257 RPM. In first class condition.

ARTHUR S. PARTRIDGE
415 Pine Street St. Louis

TRANSFORMERS

3—150 KVA, 2300 volt primary, 575 volt secondary, General Electric type H, form K.
3—75 KVA, 2300 volt primary, 575 volt secondary, General Electric type H, form K.
2—25 KVA, 550 volt primary, 110/220 volt secondary, General Electric type H, form K.
Complete with oil. Excellent condition.

JOSEPH MYERSON
411 ATLANTIC AVE. BOSTON, MASS.

For Immediate Delivery

MODERN TURBO-UNIT EXTRACTION TYPE

Consisting of

750 KW, 80% P.F., 937 KVA, 3 phase, 60 cycle, 600 volt, 3600 RPM, General Electric generator direct connected to a 3-stage Curtis Turbine, complete with motor driven exciter, switchboard panel, Wheeler Surface Condenser with all accessories and pipe connections. Complete power plant equal to new.

JOSEPH MYERSON
411 ATLANTIC AVE. BOSTON, MASS.

RANDLE

OFFERS BIG BARGAINS IN

Used and Rebuilt Engine Generator Sets, Turbo Generator Sets, Motors, Rotary Converters, Generators, Motor Generator Sets, Engines, Boilers, Steam and Electric Machinery of all kinds, also Machine Tools. Send for our new machinery list. Yours for the asking.

The RANDLE MACHINERY CO.

1734 Powers St., Cincinnati, Ohio

WANTED

A SECOND-HAND HEAVY-DUTY TRAILER. WILL PAY CASH IF PRICE IS RIGHT.

Address

C. M. WEINBRUNN-1015 N. 6th St. RICHMOND, VIRGINIA

250 Hp. Synchronous Motor (Burke Elec.)

2,200 volt, 360 r.p.m., 60 cycle, 46 amp., 3 bearing, Type AC 100, with starting panel and reduced voltage compensator.

ANDREW I. MEHAN COMPANY
309 Race St. Philadelphia, Pa.

BOILER BARGAIN

2—200 H. P. Ames Iron Works Horizontal Return Tubular Boiler, arranged for oil firing, 150-lb. ASME Mass. standard. Attractive offering. Wire or Write

CONSOLIDATED PRODUCTS CO., INC.
14-16 Park Row, N. Y. C. Barclay 0603

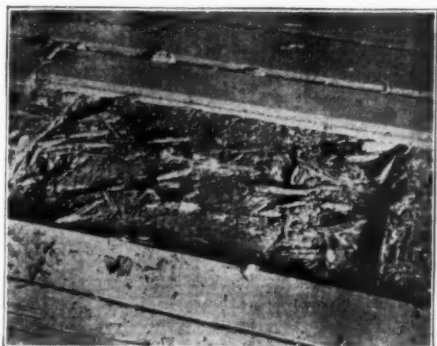
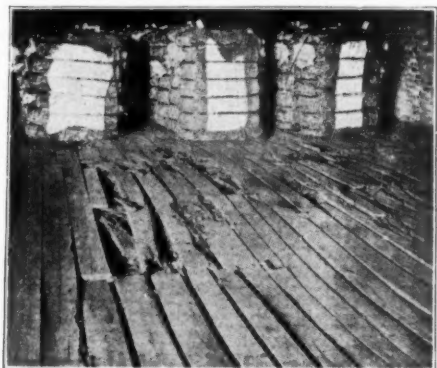
200 LB. PRESSURE BOILERS

2—Babcock & Wilcox Class M-30 Stirling Water Tube Boilers, 823 H.P., 200 lbs. pressure, A.S.M.E. code, with Westinghouse 8-retort underfeed stokers. Used six or eight months. Complete and good condition.

NASHVILLE INDUSTRIAL CORP.
Old Hickory, Tenn.

DO IT RIGHT THE FIRST TIME ~ ~ THEN FORGET IT

Creosoted Sub-flooring Defeats Decay



Defeats Decay

WHEREVER floors, sub-flooring, sills, stringers or other building wood is to be close to the ground, exposed to the elements or to moist atmosphere—use *creosoted pine*!

Decay-producing fungi thrive on the fibres of untreated wood under these conditions, eating its strength, destroying it.

Government experiments have proved that “such timbers as can be wholly impregnated with creosote will never rot.” (Bulletin 14, U. S. Dept. of Agriculture.)

Creosoted pine is virtually everlasting. Fire-resistant. Easily available. Its initial cost is about one and a half times the price of untreated pine. There is no other cost.

Write TODAY for information.

Creosoted

Transmission
Poles,
Railroad
Ties,
Structural,
Bridge and
Mine
Timbers,
Piling,
Lumber,
Flooring &
Sub-flooring,
Posts
and
Other Forest
Products

The Evidence

Fig. 1. Pine flooring of Mississippi warehouse rotted mainly by *Poria incrassata* (a parasitic growth) after very short service.

Fig. 2. Same floor shown in Fig. 1, showing construction—untreated planks laid on flat 2"x10" stringers almost imbedded in soil and debris. Only thoroughly treated timber will stand up under such conditions.

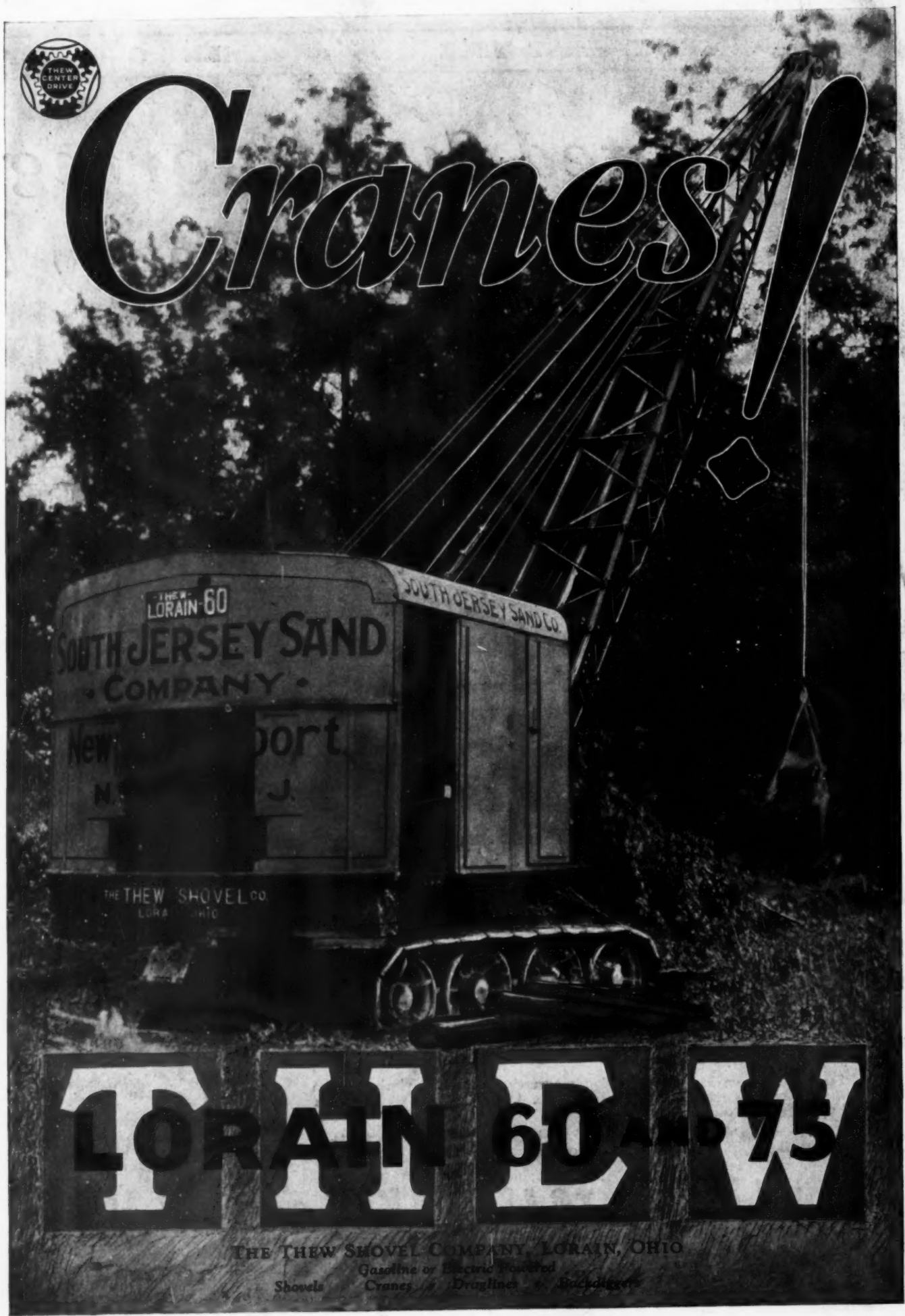
Fig. 3. Three successive untreated floors which have been rotted by *Poria incrassata* in eastern Texas warehouse, all of which gave but short service.



J.F. Prettuman & Sons
Wood Preserving Plant
Charleston, S.C.



Cranes!



THEW
LORAIN 60 and 75

THE THEW SHOVEL COMPANY, LORAIN, OHIO
Gasoline or Electric Powered
Shovels Cranes Draglines Backhoes

